

1 STATE OF MINNESOTA DISTRICT COURT
2 COUNTY OF RAMSEY SECOND JUDICIAL DISTRICT
3 - - - - -

4 The State of Minnesota,
5 by Hubert H. Humphrey, III,
6 its attorney general,
7 and

8 Blue Cross and Blue Shield
9 of Minnesota,

10 Plaintiffs,

11 vs. File No. C1-94-8565

12 Philip Morris, Incorporated, R.J.
13 Reynolds Tobacco Company, Brown &
14 Williamson Tobacco Corporation,
15 B.A.T. Industries P.L.C., Lorillard
16 Tobacco Company, The American
17 Tobacco Company, Liggett Group, Inc.,
18 The Council for Tobacco Research-U.S.A.,
19 Inc., and The Tobacco Institute, Inc.,

20 Defendants.

21 - - - - -
22

23 DEPOSITION OF WILLIAM E. WECKER

24 SATURDAY, APRIL 18, 1998

25 VOLUME III pages 409 - 573

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1 (The following is the continued deposition
2 of WILLIAM E. WEKCER, taken pursuant to notice, at
3 the Embassy Suites Hotel and Conference Center, 101
4 McInnis Parkway, San Rafael, California, commencing
5 at approximately 9:00 o'clock a.m., April 18, 1998.)
6

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1 I N D E X

2 William E. Wecker, Ph.D.

3 Adverse Examination by Mr. Hamlin 409 - 573

4

5

6 P L A N T I F F S '

7 D E P O S I T I O N E X H I B I T S

8 4878 - Supplemental Expert Report 421

9 4879 - Affidavit 424

10 4880 - Computer disk run 430

11 4881 - Computer disk run 447

12 4882 - Computer disk run 463

13 4883 - Databases - MN list 476

14 4884 - Wecker notebook 477

15 4885 - 4887 - Wecker notebooks 506

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1 PROCEEDINGS

2 (Witness previously sworn.)

3 WILLIAM E. WECKER

4 called as a witness, being previously

5 sworn, was examined and testified as

6 follows:

7 ADVERSE EXAMINATION (cont'd)

8 BY MR. HAMLIN:

9 Q. Good morning, Dr. Wecker.

10 A. Good morning.

11 Q. You understand you are still under oath?

12 A. Yes.

13 Q. This is a continuation of your previous
14 deposition of this matter. I'm going to be asking
15 you some questions this morning. If you don't
16 understand a question, please let me know and I'll
17 try and rephrase it so you can understand it. Is
18 that agreeable?

19 A. Yes.

20 Q. I also would appreciate it if you would wait
21 until I finish asking my question before you start
22 your answer because the court reporter can't pick up
23 two people speaking at the same time. Is that also
24 agreeable?

25 A. Yes.

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- 1 Q. Lastly, I would appreciate it if you would say
2 your answer in words because the court reporter can't
3 pick up a nod of the head. Is that also agreeable?
4 A. Yes.
5 Q. Have you reviewed trial testimony of any of the
6 witnesses in this case?
7 A. Yes.
8 Q. Who?
9 A. Samet, Zeger, Wyant.
10 Q. Anyone else?
11 A. No.
12 Q. Have you reviewed the opening statements of
13 counsel in this case?
14 A. I don't remember if I received those or not.
15 But if I did, I certainly didn't review them in their
16 entirety; I might have just looked at them.
17 Q. Since the time of your last deposition have you
18 consulted with an epidemiologist about this case or
19 your opinions?
20 A. Yes, with the following understanding: I've
21 consulted with the other people in my office who are
22 experts in statistics and the application of
23 statistics to matters of health.
24 Q. Anyone else?
25 A. No one outside the office.

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- 1 Q. Have you consulted with a health economist since
2 the time of your last deposition?
3 A. No, I've consulted with no economists.
4 Q. Have you consulted with any medical doctors
5 since the time of your last deposition?
6 A. No.
7 Q. Have you consulted with any toxicologists since
8 the time of your last deposition?
9 A. No.
10 Q. Have you reviewed any of the Surgeon General's
11 reports on smoking and health since the time of your
12 last deposition?
13 A. Yes.
14 Q. Which ones?
15 A. 1989. I think it's 1990. The exercise one.
16 Q. And for what reason did you review the 1989
17 report?
18 A. There was testimony by one of your experts, I've
19 forgotten exactly which one, about that report in
20 terms of the issue of controlling or confounding. So
21 I went back to that report as guided by that
22 testimony to see what it said.
23 Q. For what purpose did you review the 1990
24 report? Just so we're clear, the 1990 report is the
25 one on smoking cessation?

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1 A. Maybe that's not the one I looked at. I've
2 forgotten the year. Maybe it's '96.
3 Q. I believe that's the report on exercise.
4 A. Yeah, it was the exercise report.
5 Q. For what purpose did you review the report on
6 exercise?
7 A. Just to refresh my understanding what the
8 Surgeon General had said about the importance of
9 exercise for health.
10 Q. Since the time of your last deposition have you
11 reviewed the Minnesota Medicaid claims data?
12 A. In terms of certain totals, not claim by claim.
13 Q. But you have looked at totals?
14 A. Yes. We're talking about what we call the -- to
15 make sure I understand your question, what is often
16 called in this case the pots, and I've done that.
17 Q. But you haven't looked at specific claims?
18 A. Well, I have the vaguest recollection that I
19 might have done something like that, but it doesn't
20 come to mind. If in the course of going through my
21 work papers it comes to something that jogs my
22 recollection on that, I'll be sure to bring it up,
23 and I'll make a note of it. But right now, I can't
24 think of a review of a person by person Medicaid
25 Minnesota claim data.

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1 Q. Have you reviewed the Blue Cross claims data
2 since your last deposition?

3 A. No.

4 Q. Have you spoken with Dr. Rubin since your last
5 deposition?

6 A. No.

7 Q. Have you spoken with Dr. McCall since your last
8 deposition?

9 A. No.

10 Q. Now, since the last deposition, the Court has
11 issued a number of orders in this case regarding
12 damages. Have you been informed of that fact?

13 A. I guess I'm vaguely aware that the Judge has
14 issued orders. I don't know the specifics about -- I
15 don't know about the specifics of the orders.

16 Q. Let me ask you this: An order was issued on
17 January 24th, 1998 regarding premature death. Have
18 you been provided a copy of that order?

19 A. No.

20 Q. Has that order been explained to you?

21 A. No.

22 Q. Have you gone back to your reports to determine
23 whether any of your calculations violate that order?

24 A. No, in the sense that I -- not knowing exactly
25 what the order is, and on top of that not being a

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1 lawyer, I probably don't have the capacity to do
2 that, even if I tried.

3 Q. So you didn't go back to your reports?

4 A. I've been back to my reports, but I haven't -- I
5 tried to give them more fulsome answers so we could
6 communicate; I certainly haven't gone with that
7 particular purpose. As I was thinking about the
8 question in the course of answering it, it occurred
9 to me that I'm not really trained to do that and
10 wouldn't attempt if I was asked.

11 Q. On January 26th, 1998 the Court issued another
12 order denying the defendant's motion to dismiss
13 certain antitrust claims. In that order the Court
14 stated in part that the plaintiffs are entitled to
15 seek the full measure of damages for their entire
16 indivisible injury. Have you been provided with a
17 copy of that January 26th order?

18 A. No.

19 Q. Has that order been explained to you?

20 A. No.

21 Q. Do you have any understanding of that order?

22 A. Only about the general level of this
23 conversation. I don't know exactly what it means.

24 Q. Well, can you tell me generally what you
25 understand the order to mean?

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1 A. I'll give you my impression, but I'm not
2 claiming that I have authoritative expert ability to
3 put forward an understanding.

4 I thought it was something like a burden
5 shifting decision that would work like this: That as
6 I see it, any reasonable person would immediately see
7 that plaintiffs could not reasonably be claiming
8 damages arising from all smoking from all time; so
9 that a question arises as to which damages from which
10 smoking are involved in the claim.

11 And apparently the Judge's decision, as I
12 understand it in my layman's role here -- when I say
13 "layman", I mean not an expert in the law and where
14 my expertise in statistics doesn't help. So my
15 understanding is that rather than requiring
16 plaintiffs to make that division and prove it up, so
17 to speak, that is now going to be a requirement for
18 defendants. That's my sense of it.

19 Q. Do you have any understanding as to what effect,
20 if any, that order has on your opinion regarding the
21 wrong question which you reference in your
22 supplemental expert report?

23 A. No. I'm not sure when it comes down to the
24 specifics of the courtroom procedure exactly how
25 the -- any of my opinions would be affected.

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1 Q. The Court also issued an order on February 19th,
2 1998 stating in part --

3 A. Can I go back? I was just thinking about that.
4 I haven't thought about this before so I'm -- it's an
5 interesting topic. I can't see how any of my
6 opinions could be affected by these orders.

7 I'm going to think about what I think about
8 what I think about, but what could be affected is
9 what question is being posed. I'll bet that's the
10 way it turns out.

11 So if there is an effect here, it will
12 affect on lawyers and what questions they want to
13 pose. I'm making a reasoned guess as to what the
14 Court's orders affect.

15 Q. Has that effect on the questions that are put to
16 you been explained to you?

17 A. No.

18 Q. Let me ask you about this February 19th, 1998
19 order. It states in part that, "The indivisible
20 injury --

21 A. I didn't have a February 1. I had January 26th.

22 Q. I'm asking you about another order.

23 A. What's that date?

24 Q. The Court issued an order on February 19th,
25 1998. It states in part, "The indivisible injury

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1 rule does not require plaintiffs to show damages are
2 clearly distinct." Have you been provided a copy of
3 that order?
4 A. No.
5 Q. Has that order been explained to you by counsel?
6 A. No.
7 Q. Do you have any understanding of that order?
8 A. Only what I could try to read into it from your
9 paraphrasing a piece of it. It doesn't seem to make
10 a lot of sense actually.
11 Q. Do you --
12 A. I'm not saying the Judge makes no sense, but
13 that fragment by itself doesn't communicate a really
14 clear thought to me at all.
15 Q. You would need to look at the entire order?
16 A. And then not being a lawyer, I would probably
17 need a lawyer to explain it to me.
18 Q. Do you have any plans to review your expert
19 report or reports in light of this order?
20 A. No. I hadn't formulated a plan to do that.
21 Q. You're aware that the defendants in this case
22 asked the Court for leave to submit two new models on
23 March 12th, 1998; is that right?
24 A. I'm not -- I don't know what you're referring to.
25 Q. Do you recall preparing I think what was called
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1 a second supplemental report?
2 A. Yes. So that's what you're referring to?
3 Q. Yes.
4 A. I know about that.
5 Q. On March 12th, 1998 the defendants asked the
6 Court for leave to submit that report. On April 1
7 the Court denied that request. Are you aware of
8 that?
9 A. Yes, I believe I read that.
10 Q. Has the significance of that order been
11 explained to you?
12 A. No.
13 Q. Let me show you -- first of all, let's mark it.
14 (Wecker Deposition Exhibit No. 4878 marked for
15 identification.)
16 BY MR. HAMLIN:
17 Q. Dr. Wecker, let me show you what's been marked
18 as Deposition Exhibit 4878. This is a copy of your
19 supplemental expert report, correct?
20 A. Yes.
21 Q. Did you prepare this report?
22 A. Yes.
23 Q. How many drafts did you prepare of this report?
24 A. Well, the way I think of a draft, I would say
25 none, but obviously I didn't type in every word in --

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1 the first time exactly as the way it ended up on the
2 page. With the way we do things on computers now,
3 the old idea of a draft is starting to lose meaning.

4 Q. You did make revisions to the report?

5 A. Stylistically. I can't think of any
6 substantive. I just tried to express myself well.

7 Q. Did you save those first attempts to express
8 yourself?

9 A. I think the question mischaracterizes the
10 process. As I -- I suppose you know, but you can
11 tell me if this is novelty and I'll explain the
12 process more fully. But with a word processor in a
13 computer file, every time you press a key there is a
14 change, and I don't really think of those as changes.
15 But if you were picky about what is a change, I
16 suppose you would have to count every key stroke.

17 So what I do not have and did not have is
18 some version of this that might be called version
19 one; that was say the version for a time and then
20 later another version came on. This is just the
21 normal course of producing this document, typing
22 changes.

23 Q. Are you saying that you only made changes to
24 correct typos?

25 A. No. I'm -- I feel sure you know how this works;

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1 if we have a word processor program in one of these
2 computers in front of us, we could go through the
3 process. You start with a file that has nothing in
4 it and you start typing your words, and then you read
5 them and see how they read to you. And sometimes
6 there is a typo, sometimes a spelling error, but most
7 often it's just a matter of clarity and expression,
8 so you try to rephrase things to make your
9 communication better.

10 Q. But you didn't make any effort to save those, if
11 you will, original expressions, right? I mean,
12 that's not your normal course?

13 A. No one does that.

14 Q. And all I'm asking is whether or not you made
15 any effort to do that in this case.

16 A. No. It's not -- no one does that sort of thing.
17 But let's not confuse what I was doing was I think a
18 legitimate concept of what you might call a
19 preliminary version, which has a certain distinct
20 status which might better fit your idea of things to
21 be saved, and I just don't have those things to be
22 saved.

23 Q. Did you generate any written memos in connection
24 with your expert report?

25 A. Not that -- not other than what we have -- what

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1 has been produced to you, the affidavit, a few
2 reports.

3 Q. Now, your opinions in this case are contained in
4 your original expert report and in your supplemental
5 expert report; is that correct?

6 A. Yes, and there is an affidavit that I'm sure you
7 have and then there is --

8 Q. What's the date of the affidavit?

9 A. The 29, December, '97.

10 (Wecker Deposition Exhibit No. 4879 marked for
11 identification.)

12 BY MR. HAMLIN:

13 Q. Let me show you what's been marked as Deposition
14 Exhibit 4879. Is that the affidavit that you're
15 referring to?

16 A. It appears to be, but it's not signed. So it
17 isn't quite the same as my copy in the sense that at
18 least it's not signed. I haven't checked every word.

19 Q. Just for the record, I think the reason it's not
20 signed is that it was filed on CLAD.

21 A. I don't know what that means.

22 Q. It was filed electronically?

23 A. So it appears to be -- and if it's important, we
24 can check word by word. My quick check showed it
25 appeared to be the same in substance.

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1 Q. Do you have opinions in this case that are not
2 contained in these two reports and in your affidavit?

3 A. Well, there was an original report that you
4 haven't mentioned or I haven't mentioned yet.

5 Q. I asked you this question: Do you have opinions
6 that are not contained in the two expert reports that
7 you filed in this case and in your affidavit which we
8 just marked as Deposition Exhibit 4879.

9 A. There is a supplemental -- second supplemental
10 report which is subject to an order, and I have
11 opinions in that. I think that, yes, those cover my
12 opinions. You could elaborate them and probe them
13 with further questioning, but I think the umbrella of
14 those materials would identify my opinions in the
15 case.

16 Q. And do you have opinions in this case that are
17 not contained in those -- strike that -- in the
18 documents that you just identified?

19 A. I understand that to be the same question. I
20 misunderstood your question before.

21 MR. BIERSTEKER: Mr. Hamlin, the
22 Deposition Exhibit 4879 has got some handwritten
23 notations in the last page that I don't think were
24 the witness' or ours. As long as that's clear on the
25 record, that's fine.

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1 THE WITNESS: Can we go off?

2 (Discussion held off the record.)

3 BY MR. HAMLIN:

4 Q. Now, you also performed a nursing home analysis
5 just recently; is that right?

6 A. Nursing home analysis is your own expert's
7 analysis. I have reviewed that analysis.

8 Q. You were provided with a disk with Dr. Wyant's
9 test of the nursing home model on it, right?

10 A. I think I know what you mean, the 60- to
11 90-year-old?

12 Q. That's where he looked at the 60- to
13 90-year-olds. So you did receive a copy of that
14 disk; is that right?

15 A. I would have to check whether we got a disk, but
16 I certainly understand what it is. I don't have any
17 problem understanding it.

18 Q. Did you review Dr. Wyant's work in connection
19 with that test?

20 A. I can tell you what I did.

21 Q. Why don't you tell me what you did.

22 A. Having understood from his description of the
23 calculation, it was really a simple matter; to go to
24 his calculations, make the changes that I understood
25 he made and get the results that were consistent with

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1 what we understood he was coming up with. Whether we
2 did that by looking at his work or just understood it
3 automatically, I'm not sure.

4 Q. It was a pretty simple calculation, correct?

5 A. It's not a difficult calculation.

6 Q. Were there any --

7 A. Well, it's -- let me back up. It's expert work.
8 I don't mean that it's easy for just anybody, but if
9 you're already steeped in the understanding of the
10 computer programs involved here, this is not a huge
11 leap.

12 Q. Did you find any errors in Dr. Wyant's
13 calculations?

14 A. You mean like arithmetic? No. I think he
15 implemented adequately what he intended to do, if
16 that's what you mean.

17 Q. I'm asking you if you found math errors.

18 MR. BIERSTEKER: In the nursing
19 home --

20 BY MR. HAMLIN:

21 Q. In the nursing home 60- to 90-year-old analysis
22 test.

23 A. If you mean like arithmetic errors, I would say
24 I did not.

25 Q. Did you put any of your conclusions about Dr.

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1 Wyant's nursing home analysis test in writing?

2 A. In the sense of something like a memo, no. In
3 the sense of I've done some work on that and I have
4 work papers I've provided to you, yes.

5 Q. Have you reviewed Dr. Wyant's comparison of
6 mortality rates from smoking-related diseases for the
7 United States and Minnesota?

8 A. Let me see if I can figure out what you're
9 referring to. He talked about comparing his results
10 in percentage terms from his calculations in
11 Minnesota to certain percentages in other studies
12 that are mainly national. Is that what we're talking
13 about?

14 Q. Do you recall Dr. Wyant's testimony about
15 mortality rates in the United States and Minnesota?

16 A. Well, I recall a lot of testimony, and I'm
17 trying to put my finger on which one you're talking
18 about. So the testimony you're talking about is not
19 as comparison of Minnesota to the United States in
20 percentage terms, where the Minnesota figures are
21 actually dollars; but you're talking about Minnesota
22 mortality as distinguished?

23 Q. I'm talking about Minnesota mortality.

24 A. Well, I remember his work -- from his work
25 papers on that, and I've forgotten whether he did

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1 that at trial or not. If he did, then it's probably
2 the same material that I'm familiar with.

3 Q. Did you find any errors in any of Dr. Wyant's
4 calculations with respect to that subject?

5 A. We're talking about like arithmetic errors as
6 opposed to conceptual or --

7 Q. We're talking about arithmetic errors.

8 A. I don't recall finding any arithmetic errors.

9 Q. Do you recall receiving a computer disk which
10 contained that calculation?

11 A. That would have been sometime ago about the same
12 thing?

13 Q. Correct.

14 A. I don't specifically recall the arrival of the
15 disk, but I do recall sometime ago reviewing that
16 material.

17 Q. Let me direct your attention to the supplemental
18 report which has been marked as Deposition Exhibit
19 4878. At the bottom of page 2 you state that, "Zeger
20 did not compare the costs of all smokers versus
21 non-smokers within the public aid sample alone or the
22 private insurance sample alone including all medical
23 expenses using one consistent methodology. I
24 performed such an analysis separately for the public
25 aid and private insurance group." And you go on to

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1 say, "I recalculated smokers' costs after assigning
2 them the same average costs as non-smokers."

3 This calculation that you're referring to
4 was the source of the data in the 1987 NMES survey?

5 A. Yes, that was the source.

6 Q. I want to ask you a couple of questions about
7 the public aid population in NMES. Do you recall the
8 number of smokers in the public aid population?

9 A. Not off the top of my head, no.

10 Q. Now, you've got a number of documents with you,
11 correct?

12 A. Yes.

13 Q. Do you know if any of that information contained
14 contains that number for smokers in NMES?

15 A. I don't know, but it's possible. I could look.
16 (Wecker Deposition Exhibit 4880 marked for
17 identification.)

18 BY MR. HAMLIN:

19 Q. Let me show you what's been marked as Deposition
20 Exhibit 4880, and I want to represent to you that
21 this is a run from one of the disks that we received
22 in connection with your supplemental report. Just
23 for purposes of trying to speed things up a little
24 bit, let me direct your attention to what looks like
25 page 10, which is the facts page, and the page is

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1 titled, "Overall Summary of Medical Expense by Age
2 and Sex," and I just ask you if you recognize that.

3 MR. BIERSTEKER: Tom, is it possible
4 for you to identify the program it produces?

5 MR. HAMLIN: I don't know.

6 THE WITNESS: Well, I can figure it
7 out later.

8 BY MR. HAMLIN:

9 Q. Here's what I want to direct your attention to:
10 The portion of the page specifically that contains
11 this information, never smoker, ever smoker, it
12 appears to us that that does contain information
13 about the number of smokers on NMES who were on
14 public aid, as well as the number of never smokers on
15 NMES were public aid --

16 A. Yes. I think --

17 Q. -- is that right?

18 A. I think that's correct. I believe you
19 understand correctly the printout.

20 Q. Using this exhibit, can you tell me the number
21 of smokers on public aid in NMES?

22 A. 1,128.

23 Q. And what is the number of never smokers on
24 public aid?

25 A. 854.

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- 1 Q. What is the percentage then of smokers on public
2 aid in NMES?
3 A. As a percentage of what?
4 Q. Well, as a percentage of the total number of
5 people indicated here on public aid.
6 A. Well, we need another number for that. Maybe I
7 don't understand your question.
8 Q. Wouldn't we just take the number of smokers --
9 A. Let me start by getting a calculator. Go ahead
10 please.
11 Q. Let's just do this calculation. Let's put the
12 number of smokers on public aid and the numerator
13 should be 1,128. And then for the denominator, let's
14 put both the number of smokers, 1,128 and the number
15 of never smokers on public aid. I believe that
16 number is 854.
17 A. 57 percent.
18 Q. Now, is that the percentage of smokers on public
19 aid in NMES?
20 A. It's the percentage of smokers on public aid in
21 NMES as a percentage of all public aid in NMES.
22 Q. Let me ask you now about non-public aid on NMES.
23 I think we can go back to the exhibit on the same
24 page, right?
25 A. Probably.

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- 1 Q. Can you tell me the number of smokers not on
2 public aid in NMES according to your chart?
3 A. Looks like 9,555.
4 Q. Can you tell me the number of never smokers not
5 on public aid in NMES according to your chart?
6 A. 9,030, 9,030.
7 Q. Let's do this calculation. Let's put the number
8 of non-public aid smokers in the numerator. That's
9 9,955?
10 A. 52 percent.
11 Q. So you did the calculation and it's 52 percent?
12 A. Yes, but for the record, I'm being a little
13 smartalicious, but the 52 percent is percent that the
14 9,955 is of the total 9,955 and 9,030.
15 Q. And does this represent the percentage of
16 smokers who are not on public aid in NMES?
17 A. No.
18 Q. What is that percentage?
19 A. That would be a different number.
20 Q. Well, tell me what the 52 percent represents.
21 A. It's the percent of non-public aid smokers as a
22 percentage of non-public aid in NMES.
23 Q. So when we compare the percentage that you just
24 calculated, the public aid smoker percentage is
25 greater than the non-public aid smoker percentage,

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- 1 correct?
- 2 A. Yes, in the context of what we have been saying.
- 3 Every time you say percentage, you invite confusion
- 4 if you don't say as a percentage of what. But I
- 5 think we have cleared it up with the previous
- 6 questions.
- 7 Q. Now, have you reviewed any literature which
- 8 describes the Medicaid program?
- 9 A. Yes.
- 10 Q. What have you reviewed?
- 11 A. I don't recall what it was. It's been sometime.
- 12 It describes what classes of people get on Medicaid.
- 13 Q. Was this done in connection with your work in
- 14 this case?
- 15 A. Yes, background reading.
- 16 Q. What populations does Medicaid affect?
- 17 A. You mean what populations are subsidized,
- 18 receive benefits from --
- 19 Q. Or that may be affected by the Medicaid program.
- 20 A. Oh, that could be everybody; that's why I needed
- 21 some clarity in the question.
- 22 Q. So it could be everybody, right?
- 23 A. The question is vague. The question could
- 24 encompass everybody.
- 25 Q. Have you reviewed the Medicaid source book?

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1 A. I might have. If you show it to me, I've just
2 forgotten the name of the document.

3 Q. Let me show you what's been marked as Trial
4 Exhibit 26,049. This is an excerpt from that
5 exhibit; the exhibit itself was larger. Do you
6 recall whether you reviewed this Medicaid source book
7 from just looking at the excerpt?

8 A. I don't think I did.

9 Q. Let me direct your attention to page 735 which
10 is the third page of that exhibit. In the second
11 full paragraph it states as follows: Results from
12 this longitudinal study suggest that the program
13 affects two rather distinct populations. A sizable
14 share of Medicaid leaves appears to be from the ranks
15 of workers who, because of job loss reduced work
16 hours or reduced hourly wages find themselves
17 eligible for Medicaid. About 22 percent of those
18 persons becoming eligible for Medicaid were in middle
19 or high income families prior to their Medicaid
20 coverage. A second group of Medicaid enrollees faced
21 more long-term economic hardships. About half of new
22 Medicaid participants were living in families with
23 income below the poverty threshold prior to Medicaid
24 enrollment.

25 Do you have any reason to disagree with

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1 that statement?

2 A. I don't have a basis to agree or disagree
3 because I haven't reviewed the study that it's
4 referring to.

5 Q. Let me direct your attention now to page 738
6 which is the next page on the exhibit. I want to
7 direct your attention to the first full paragraph.
8 About the middle of the paragraph it states, "A
9 family's gross monthly cash income." Do you see
10 that?

11 A. Yes.

12 Q. It goes on to say, "Minus some disregard is the
13 income used in determining AFDC, (and Medicaid)
14 eligibility for the medically needed, and
15 individuals' gross cash income may not be directly
16 related to their Medicaid eligibility. Rather, these
17 individuals qualify for Medicaid because their
18 medical expenses are so high that their net income,
19 i.e., income after medical expenses, is below the
20 state's maximal allowable income level."

21 Do you have any reason to disagree with
22 that statement?

23 A. No, I don't.

24 Q. Let me direct your attention now to -- well,
25 strike that. Let me ask you this: Would you agree

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1 that the treatment of lung cancer can be costly?
2 A. Yes.
3 Q. That it can result in high medical bills?
4 A. Yes.
5 Q. And that it could force a person to go onto the
6 Medicaid program if they didn't have sufficient
7 resources to pay for those bills, right?
8 A. I don't know. It might or might not.
9 Q. It could?
10 A. I don't know. I've already told you that I
11 don't have an independent basis to tell you about
12 these requirement bills. I'm not disagreeing, I'm
13 just saying I can't tell you. You're saying it
14 could, and I have no basis to disagree with you.
15 Q. Let's go to page 740 which is the next page.
16 Down at the bottom of the page it states, "First,
17 like their cash assistance counter-parts." Do you
18 see that?
19 A. Not yet.
20 Q. Down at the bottom, last paragraph.
21 A. Yes, I see it.
22 Q. Let me read it. It states, "First, like their
23 cash assistance counterparts, these individuals must
24 be in families that meet the categorical eligibility
25 criteria, i.e., single parent family aged and are

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1 disabled. In addition, these individuals must either
2 have incomes below the medically needy thresholds or
3 incur medical expenses that reduce their income to
4 levels that are close to the thresholds used in the
5 AFDC program for family of comparable size."

6 Again, let me ask you this: Do you have
7 any reason to disagree with that statement?

8 A. No, I don't have a basis to either agree or
9 disagree with it.

10 Q. And just for the record, that statement comes
11 under paragraph 2 which is titled "Medically Needy
12 Income Thresholds and the" --

13 A. Yes.

14 Q. Do you see that?

15 A. Yes.

16 Q. You just haven't studied the medically needy
17 population or the effect Medicaid may have on that
18 population, right?

19 A. That's too broad. But I certainly haven't
20 studied these enrollment rules and their bureaucratic
21 detail; the kind that we're reading now. I haven't
22 studied it at that level and for that purpose.

23 Q. Now, going back to your supplemental expert
24 report, and specifically the calculations that you
25 perform separately for the public aid and private

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1 insurance groups referenced at the top of page 3. Do
2 you see that?
3 A. Yes.
4 Q. Let me ask you this: When you did the
5 calculation for public aid, you looked at smokers and
6 non-smokers on public aid in NMES, right?
7 A. Yes.
8 Q. You didn't look at any other populations, right?
9 A. Well, some of these -- some of the calculations
10 that I did, and have provided to you, look at BRFSS
11 individuals.
12 Q. Let me be clear. When you did this calculation
13 of smokers versus non-smokers on public aid, you
14 reference at the top of page 3 you only looked at the
15 public aid population in NMES, right?
16 A. I don't think so. I've done more than one
17 calculation that could be described as -- could be
18 described consistently with the sentence we're
19 reading, and I suppose if we get them out and look at
20 them in detail, we could have better answers. But
21 some of them include BRFSS I believe. I would want
22 to check that.
23 Q. Well, do you recall doing a separate calculation
24 for smokers and non-smokers on Public aid in NMES?
25 A. Yes. That's one thing I did; that's for sure.

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1 Q. Now, with respect to that calculation --

2 A. Okay.

3 Q. -- you only looked at the public aid population
4 in NMES, right?

5 A. Focusing on that particular comparison, that's
6 correct.

7 Q. You didn't look at any people who may have --
8 strike that. You didn't look at any people who might
9 be forced to go on Medicaid because they get a
10 tobacco-related disease that is expensive, right?

11 A. Not in the particular comparison that we're
12 isolating here.

13 Q. Now, does it matter to that calculation that you
14 performed that smoking could force people to go onto
15 Medicaid?

16 A. The calculation result would be the same whether
17 what you say is true or not. To the extent that what
18 you're saying is true, it might affect the data and
19 therefore affect the result.

20 Q. So then it would matter?

21 A. Well, that's why I gave a somewhat longer
22 answer. It's not clear whether you would say yes or
23 no to that. The correctness or lack of correctness
24 of your assertion in the question would influence the
25 data that is used in the calculation. In that sense,

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1 it would matter.

2 Q. In any case, with respect to your calculation
3 of smokers and non-smokers on Public aid in NMES, you
4 did not look at that population, right?

5 MR. BIERSTEKER: Object to the form.

6 THE WITNESS: That population being
7 people not on public aid at that time of the
8 calculation? At the time the data was collected,
9 that's correct.

10 BY MR. HAMLIN:

11 Q. Now, let me direct your attention to your
12 supplemental expert report. At the top of page 3,
13 you state that you recalculated smokers' costs after
14 assigning them the same average costs as non-smokers.
15 Do you see that?

16 A. Yes.

17 Q. Can you tell me what that means?

18 A. Yes. It means doing, by way of calculation, a
19 hypothetical in which I replace the actual costs that
20 the public aid smokers incur with a different value,
21 a different average value. And I take that average
22 value by calculating the non-smoker average.

23 Q. And this is for the NMES public aid population?

24 A. Yes.

25 Q. Now, with respect to that calculation of the

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1 Public aid population in NMES, were you attempting to
2 answer the question of whether smokers cost more than
3 non-smokers to treat?

4 A. That seems like a slightly different question.

5 Q. What question were you trying to answer?

6 A. Answering the question of what medical costs
7 would be in the private insurance category; if
8 smokers had the same average medical costs as
9 non-smokers.

10 Q. Let's talk about the calculation public aid
11 recipients --

12 A. Yes. I meant that throughout.

13 Q. We're talking about that calculation.

14 A. Yes.

15 Q. What you were attempting to do was to see
16 whether or not smokers cost more than non-smokers,
17 right?

18 MR. BIERSTEKER: Objection. Asked
19 and answered.

20 THE WITNESS: On the average?

21 BY MR. HAMLIN:

22 Q. On average, that's what you were attempting to
23 do, right?

24 A. Yes.

25 Q. Now, let me ask you about that specific

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1 calculation. You calculated SAFs for six age and sex
2 groups, right?

3 A. I think for the purpose of that calculation
4 it's four; two age and two sex.

5 Q. What were the age groups?

6 A. 35 plus, 65 plus.

7 Q. Then you calculated total expenditures for
8 smokers of those two age groups -- strike that -- the
9 two age groups and two sex groups, right?

10 A. I have their total medical expenditures by group.

11 Q. And then you did a similar calculation for them
12 as non-smokers, right?

13 A. Changing the costs to those of non-smokers, yes.

14 Q. And then you applied those SAFs to the billing
15 data, the Medicaid billing data, and determined who
16 costs more, right?

17 A. That's close enough I think. Not the way I
18 would have said it, but I think you're getting the
19 right idea. There is no way that this question and
20 answer format is really going to be a stand-in for a
21 complete spread sheet. We're missing some details.
22 That's the idea.

23 Q. Now, in calculating the SAFs for that particular
24 analysis, that is public aid NMES people, you counted
25 all of the costs regardless of who the payer was,

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1 right?
2 A. Yes. Total medical.
3 Q. Whether the payer was public aid or non-public
4 aid, right?
5 A. That's right. If I'm understanding your
6 question, that's the same way that your experts were
7 doing their calculations.
8 Q. So in calculating the public aid SAF, you used
9 total expenditures, not just what was paid by public
10 aid, right?
11 A. Yes.
12 Q. With respect to these two groups, you compared
13 their costs by comparing the two groups, right?
14 A. At that level of generality, yes.
15 Q. But you did not stratify by specific age in
16 making those comparisons, right?
17 A. I did by age groups.
18 Q. And the age groups were 35 to 64 and 65 plus?
19 A. Right. Same age groups that your experts had
20 been using.
21 Q. But you didn't compare, for example, 35-year-old
22 smokers to 35-year-old non-smokers, right?
23 A. Right. I think if I understand you, it was --
24 they were compared, but they were compared in the
25 context of a group that was larger than just the

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1 35-year-olds. Could we take a break?

2 (Recess taken.)

3 BY MR. HAMLIN:

4 Q. Dr. Wecker, I want to ask you some questions
5 again about this public aid calculation that you did
6 that references the public aid population of NMES,
7 okay? And I say that just so that when I ask you
8 these series of questions, you know what calculation
9 we're talking about, okay?

10 A. Yes.

11 Q. In that calculation did you control for
12 smoking-related diseases?

13 A. The question confuses me. Normally when we
14 think about control in this context, it's controlling
15 for things like exercise or diet. I'm not sure what
16 you mean when you say controlling for smoking-related
17 disease.

18 Q. Let me ask you this: Did you make any
19 distinctions about who had smoking-related diseases
20 and who did not in that calculation?

21 A. Only insofar as the data itself made those
22 distinctions.

23 Q. But you did not calculate smoking attributable
24 expenditures for those who had lung cancer and COPD
25 versus those who had other smoking-related diseases

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1 the way the plaintiffs did, right?

2 A. No. I didn't do it separately, but I did it in
3 the context of the more aggregate calculation.

4 Q. Now, you controlled for age group, correct?

5 A. Stratified by age group and sex.

6 Q. And you also controlled for smoking, right?

7 A. I wouldn't use the word "controlled". I
8 compared smokers to non-smokers.

9 Q. Did you control for any factors in that
10 calculation?

11 A. You mean like diet and exercise? That's what I
12 think of when think of controlling in this context.

13 No. This is a calculation that is in comparison to
14 smokers to non-smokers within public aid stratifying
15 by age and sex groups.

16 Q. Well, was it your conclusion that the plaintiffs
17 incurred no extra expense for smokers based on this
18 calculation?

19 A. Yes, that's I think a reasonable interpretation.

20 Q. Did your calculations show that for males and
21 females over the age of 19 on public aid there was a
22 positive smoking attributable expenditure of more
23 than \$54 million?

24 MR. BIERSTEKER: Object to the form.

25 THE WITNESS: I don't know where you

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1 could be referring to. I could study the calculation
2 and see if I could come up with that number and
3 figure out which is your question.

4 BY MR. HAMLIN:

5 Q. So you don't remember coming up with that number?

6 A. There is too many numbers here to memorize that
7 particular one; but if you want to give me a minute,
8 I'll look to see if I see that number anywhere.

9 Q. Why don't you check. In the meantime, I'm going
10 to mark this exhibit.

11 (Wecker Deposition Exhibit No. 4881 marked for
12 identification.)

13 BY MR. HAMLIN:

14 Q. Let me show you what's been marked as Deposition
15 Exhibit 4881, and I want to represent to you that
16 that was taken as a run from one of the disks that
17 you provided to us in connection with your
18 supplemental expert report. Does that look familiar
19 to you?

20 A. Okay. I've discovered the correspondence
21 between the first page of Exhibit 4881 and my own
22 materials, so I now understand what the spread sheet
23 is you've handed me. Sorry to take a moment to do
24 that. Now I'll actually get around to try to figure
25 out how to answer your question.

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1 I see the \$54 million number that you
2 mentioned.

3 Q. That number is a result of your calculation of
4 average costs for males and females over 19 on public
5 aid in NMES, right?

6 A. Yes, but it's not the calculation I was
7 referring to in my report.

8 Q. I'm not referring now to that report. I'm
9 simply talking about the spread sheet that is in
10 front of you.

11 A. Yes.

12 Q. With respect to that number, the number shows
13 that smokers cost \$54 million more than non-smokers
14 on public aid ages 19 and above, correct?

15 A. It shows for age 19 and above that if the
16 smokers had the same cost as -- when you say that
17 smokers cost more or less, that is a problem because
18 of the numbers of smokers.

19 So if we understand this all as a per
20 average, the nature of the calculation is smokers
21 have the same average cost as non-smokers, and then
22 there is a correction for the numbers of the people.
23 But the gist of your question is correct, but it's
24 not worded quite right. The smokers had the
25 higher -- a slightly higher cost in the 19 and up age

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- 1 group when viewed in the way this calculation does.
2 Q. And what you calculated was average cost of
3 smokers versus non-smokers on public aid in NMES over
4 the age of 19, correct?
5 A. That was part of the calculation.
6 Q. When you compared those average costs, the
7 smokers on average -- strike that -- the smokers'
8 average cost was \$54,813,543 higher, correct?
9 A. Speaking somewhat loosely but reasonably, yes.
10 Q. In this comparison of NMES public aid smokers
11 and non-smokers, you calculated average costs and
12 compared by -- strike that -- and compared smokers to
13 non-smokers with an age adjustment, right?
14 A. Roughly, right. I mean, we'll never be able to
15 say in a sentence all the details of a calculation
16 like this, but -- so I want to -- I'll say that once
17 and then I won't trouble with it again, but you have
18 the gist of it. That's a good way for me to respond.
19 Q. Let me direct your attention to the second page
20 of Exhibit 4881. This is a spread sheet for
21 Minnesota private insurance population on NMES, right?
22 A. Right.
23 Q. And again, this is your calculation?
24 A. Yes.
25 Q. Let me direct your attention to the bottom of

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1 the page. Again, it appears when you compare average
2 costs of smokers versus non-smokers over the age of
3 19 it shows that smokers' average costs are
4 \$340,391,439, right?

5 MR. BIERSTEKER: Object to the form.

6 THE WITNESS: Well, it shows that if
7 smokers over the age of 19 of the private insurance
8 kind had the same costs on the average as
9 non-smokers, then the smoking group would have a
10 lower -- costs would be lower; meaning they started
11 out higher by that amount.

12 BY MR. HAMLIN:

13 Q. Well, who pays more on average, the smokers or
14 the non-smokers on private aid?

15 A. The smokers.

16 Q. And is the difference indicated on this spread
17 sheet?

18 A. Yes.

19 Q. Is that difference \$340,391,439?

20 A. Yes. It's not the difference of the averages,
21 but it's how the average works through the more
22 elaborate calculation involving pots; age groups and
23 sex groups.

24 In your original question you said it was
25 the smoking cost; you didn't say difference and I was

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1 trying to fix it up.
2 Q. So it's not just smoking costs, it's the overall
3 costs?
4 A. No. It's a difference that would occur under a
5 hypothetical if smokers had the same average cost as
6 non-smokers.
7 Q. Now, you also did a calculation in the private
8 insurance group for those 35 and older, right?
9 A. Yes.
10 Q. And that also appears on the second page of the
11 exhibit?
12 A. Oh, the private insurance, right. Second page.
13 Q. Private insurance. Again, you've compared
14 average costs of smokers and non-smokers?
15 A. Yes.
16 Q. And what was your result?
17 A. That if smokers had in this particular group --
18 had the same average cost as non-smokers, then there
19 would be a difference of \$281 million which would be
20 interpreted as the smokers started out more
21 expensive; summarize it like that.
22 Q. So, in other words, smokers paid more, right?
23 A. That's -- that confuses things because the
24 numbers of the smokers versus the numbers of
25 non-smokers.

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- 1 Q. On average smokers paid more?
2 A. On average and in the context of this
3 calculation, the smokers started out more expensive;
4 I would agree.
5 Q. And your calculation shows that the difference,
6 that is the increased cost for smokers 35 and over on
7 private insurance was \$281,067,420, correct?
8 A. That's the difference under the hype --
9 comparing actual to the hypothetical that I described.
10 Q. So smokers pay more in that particular group on
11 private insurance?
12 A. They don't pay. It's a Medicaid payment --
13 insurance payment. It's not quite saying -- we have
14 to be a little loose in the language; but when we
15 wander too far, then I'm not comfortable.
16 Q. Smokers cost more?
17 A. Yes, that would be better.
18 Q. I'm perfectly fine with that phrasing. Now, you
19 also calculated a confidence interval for both the 19
20 plus group and the 35 plus group on private
21 insurance, right?
22 A. Yes.
23 Q. And the confidence interval for the 19 plus age
24 group is \$171,046,488 as a low and \$509,738,390 as a
25 high; is that right?

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- 1 A. I think you misread, but close enough.
2 Q. What did I misread?
3 A. One of the digits in the thousands. It's I
4 think close enough.
5 Q. For the 35 plus age group on private insurance,
6 the confidence intervals went from 117,192,295 to
7 \$444,942,545, correct?
8 A. Right.
9 Q. Now, you also did a combined calculation of both
10 public and private, correct?
11 A. Yes.
12 Q. If you could take a look at the third page of
13 what looks like Exhibit 4881. Is that that combined
14 calculation of public and private?
15 A. Yes.
16 Q. Let me ask you about the 19 and older age group.
17 Did you find that on average smokers cost more for
18 that age group?
19 A. Yes.
20 Q. And is the difference indicated on your spread
21 sheet as \$395,204,982?
22 A. Yes.
23 Q. Let me direct your attention to your
24 supplemental report, and specifically page 3 where
25 you mention the regression analysis that you did.

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1 A. Okay.

2 Q. Now, according to your statement here, you say
3 that this analysis finds no smoking attributable
4 expense; is that right?

5 A. Yes.

6 Q. Now, let me ask you this: Did you look at the
7 public aid sample of NMES as your source of data for
8 this analysis?

9 A. Yes.

10 Q. And I'm going to be asking you a series of
11 questions, and just so we're clear, Dr. Wecker, I'm
12 going to be restricting my questions to this
13 regression analysis.

14 So in doing this regression analysis you
15 did not use any Medicaid or Blue Cross claims data;
16 is that right?

17 A. You're referring to the pots? The input is the
18 NMES public aid. I'm not sure I understood the
19 question.

20 Q. Did the Medicaid or Blue Cross claims data,
21 whether individual data or the pots, play any part of
22 this regression analysis?

23 A. I think so. It's the plaintiff diminished
24 health model with my changes, and I think in the
25 plaintiffs' diminished health model we have those

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1 pots. Let me look it up.

2 I think I'm correct about that; I think the
3 Minnesota pots have to be a part of this because I
4 find them in the calculation that I changed. Let me
5 try to think about that over lunch and see if I'm
6 making a mistake; but it's what it looks like to me.

7 Q. Now, in this regression analysis you say that
8 you used the plaintiffs' diminished health model with
9 your changes; is that right?

10 A. Yes.

11 Q. What changes did you make to the diminished
12 health model?

13 A. I'm using a different input of NMES people to be
14 just the public aid, and I'm including, unlike the
15 diminished health implementation of plaintiffs -- so
16 I'm excluding some people to get down to public aid,
17 but I'm not excluding those with current treatment
18 for tobacco-related disease, unlike plaintiffs.

19 Q. So you put the currently treated into that
20 regression analysis?

21 A. Right. They're not excluded by me.

22 Q. And in the diminished health model, as presented
23 by plaintiffs, the currently treated group is not
24 included, right?

25 A. That's right.

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- 1 Q. And they are the subject of a different model,
2 right?
- 3 A. That's correct.
- 4 Q. Did you make any other changes?
- 5 A. In the regressions I included sex and age
6 variables.
- 7 Q. And you're saying that the plaintiffs'
8 diminished health status model there were not sex and
9 age variables?
- 10 A. I think -- I'm not sure if they had an age
11 variable, but I didn't think they had a sex variable
12 or a sex group variable, and I included those.
- 13 Q. Well, you combined sex and age groups in this
14 regression analysis, right?
- 15 A. Yeah. I was coming to that. I'm following the
16 practice of not interrupting.
- 17 Q. So you did do that?
- 18 A. Say the question again?
- 19 Q. You did combine the sex and age groups in this
20 regression analysis?
- 21 A. Right.
- 22 Q. You didn't break out separate sex and age groups
23 for, let's say, women, 19 to 34, 34 to 64 and 65
24 plus, right?
- 25 A. That's correct. Instead of that I included sex

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- 1 and age group variables.
2 Q. And you didn't fit separate equations for the
3 age and sex groups, right?
4 A. That's correct.
5 Q. Now, the plaintiffs did, correct?
6 A. That's right.
7 Q. And you didn't do any separate calculations for
8 lung cancer and COPD and the other major smoking
9 attributable diseases the way the plaintiffs did,
10 right?
11 A. Well, they didn't do it at all in this model.
12 Q. In this model you came up with one aggregate
13 group which included those with major smoking
14 attributable diseases as well as those with
15 diminished health, right?
16 A. I looked at all medical expenses.
17 Q. For both of those groups; that is the group that
18 was currently treated and the group with diminished
19 health, right?
20 A. Regardless of that status.
21 Q. That's what you did, correct?
22 A. Yes.
23 Q. So you didn't draw any distinctions based on
24 smoking-related diseases in your regression analysis,
25 correct?

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- 1 A. Except to the extent that the data informs with
2 respect to those distinctions.
- 3 Q. But you yourself didn't impose any additional
4 distinctions on the data, correct?
- 5 A. That's right.
- 6 Q. Now, in the plaintiffs' model the plaintiffs
7 broke out expenditures by type such as hospital
8 expense, correct?
- 9 A. Yes.
- 10 Q. You didn't do that in this regression analysis,
11 right?
- 12 A. Well, they didn't do that in the regression
13 analysis, but, anyway, I didn't do it the same way
14 they did. But it's not a part of the regression
15 calculation, even in theirs.
- 16 Q. But you didn't do it, correct?
- 17 A. Well, what I did was include the hospital,
18 ambulatory, prescription drug and those categories as
19 a combined category.
- 20 Q. Now, the plaintiffs broke out those types of
21 expenditures in the refined model that dealt with, as
22 the plaintiffs called them, the major smoking
23 attributable diseases, right?
- 24 A. Yes.
- 25 Q. You didn't do this in this regression analysis,
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1 right?

2 A. My regression analysis that we're talking about
3 here was not guided by their -- or derived from their
4 refined model at all, from their diminished health
5 model.

6 Q. In your regression analysis you were attempting
7 to answer the question whether smokers cost more than
8 non-smokers, correct?

9 A. We struggled with that question many times. It
10 can't be that simple. But in some sense, yes.

11 Q. Now, did you use any of the plaintiffs' age and
12 disease screens in your regression analysis?

13 A. I'm not sure what you mean by that.

14 Q. Do you recall that in the plaintiffs' refined
15 model they imposed age and disease screens to
16 eliminate certain people?

17 A. Yes, in the refined model; but as I say, the
18 calculation we're talking about has no connection to
19 the refined model.

20 Q. Well, you do include in the calculation, that is
21 your regression analysis, those who were currently
22 treated, correct?

23 A. That's right.

24 Q. And they were the subject of the refined model
25 that the plaintiffs presented, correct?

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- 1 A. That is true.
- 2 Q. But you did not use any age or disease screens
- 3 in this regression analysis that you did, right?
- 4 A. I'm not -- I haven't heard that term "screen" in
- 5 the context here before, but there are age
- 6 classifications involved in what I've done, and
- 7 screens in the sense that 18-year-olds are not
- 8 included. So maybe I have screens.
- 9 Q. Do you know what the plaintiffs' screens are for
- 10 age?
- 11 A. I'm not sure if we're -- if I'm understanding
- 12 your question.
- 13 Q. I'm just asking whether you know what the
- 14 plaintiffs' age screen was in the refined model.
- 15 A. Well, I don't know it by that term, but if I'm
- 16 thinking of the same thing you're thinking of, that
- 17 in the refined model they began with 35-year-olds and
- 18 not younger. If by screen you mean screening out
- 19 those younger than 35, then I know exactly what you
- 20 mean.
- 21 Q. Did they impose any other age screens beyond the
- 22 one you just indicated?
- 23 A. I'm not recalling any other age screening.
- 24 Q. Do you know what the disease screen was that
- 25 plaintiffs used in the refined model?

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1 A. Well, there were -- the refined model breaks
2 into two pieces; for short the lung cancer piece and
3 the CHD piece, and they would be treated differently;
4 those two are treated differently.

5 Q. Do you know whether the plaintiffs imposed a
6 disease screen that essentially excluded people if
7 they didn't have a disease such as lung cancer a
8 certain number of times over a period of years?

9 A. That doesn't bring anything to mind.

10 Q. But you didn't impose such a screen in your
11 regression analysis, right?

12 A. Well, I don't think so, but let me say why it's
13 difficult to answer. I made certain changes to the
14 diminished health model of theirs, and so the great
15 majority of their entire apparatus is still there.
16 So if there is something in there that corresponds to
17 your question, it's still there. It's worth
18 clarifying, I made no direct use of the refined
19 model. So I would not have automatically carried
20 over as a sort of legacy part of the refined disease
21 model because that was not the way the calculation
22 was done.

23 Q. Now, you used NMES cost figures for public aid
24 in your regression analysis, right?

25 A. Yes.

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1 Q. And you included costs, regardless of who paid
2 the costs, right?

3 A. Yes.

4 Q. It didn't matter whether the costs were paid by
5 public aid or by non-public aid, correct?

6 A. That's right. And it's also consistent with the
7 way your experts did these calculations. I was
8 following their lead.

9 Q. So in your regression analysis, you did not
10 compare public aid costs to non-public aid costs,
11 right?

12 MR. BIERSTEKER: Object to the form.

13 THE WITNESS: You mean costs paid by
14 public aid for Mr. Jones as opposed to some other
15 cost paid either by Mr. Jones or on behalf of Mr.
16 Jones by some other entity?

17 BY MR. HAMLIN:

18 Q. Correct.

19 A. That's right.

20 Q. You didn't do that?

21 A. That's right. For clarity, neither did your
22 experts, and I was following their basic -- starting
23 with their computer program.

24 Q. Now, in your regression analysis you used four
25 equations; is that right?

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1 A. Yes. I'm counting four also.
2 Q. And were those equations for previous disease,
3 correct? I'm going to take them one at a time.
4 Previous disease, right?
5 A. I think we're talking alike. Has the doctor
6 ever told you, yes.
7 Q. And you also had an equation for self-reported
8 poor health?
9 A. Yes.
10 Q. And you also had an equation for whether there
11 were any expenditures?
12 A. Yes.
13 Q. And then the last equation was essentially how
14 much is the expenditure, right?
15 A. Yes.
16 Q. Now, would you agree that smoking was
17 significant in the previous disease equation?
18 A. I don't know that as I sit here. I would have
19 to check. You mean significantly significant?
20 Q. Yes.
21 A. I would have to check. I don't have that
22 material.
23 MR. HAMLIN: Would you mark this?
24 (Wecker Deposition Exhibit No. 4882 marked for
25 identification.)

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1 BY MR. HAMLIN:

2 Q. Let me show you what has been marked as Exhibit
3 4882 which is essentially further output from the
4 disks that you provided in connection with your
5 supplemental expert report, and as we understand this
6 output, it deals with the regression analysis that we
7 have been discussing. Would you take a minute and
8 just look at that?

9 A. Okay.

10 Q. Would you agree that that's at least a portion
11 of your output for the regression analysis?

12 A. It appears to be.

13 Q. Let me direct your attention to the third page
14 of Deposition Exhibit 4882. I believe this is the
15 previous disease equation; is that right?

16 A. I think so.

17 Q. Let me direct your attention to the variable
18 marked ever smoke. Do you see that?

19 A. Yes.

20 Q. And my question is whether or not this variable
21 represents smoking in the previous disease equation.

22 A. Yes.

23 Q. And is it statistically significant?

24 A. By the assumptions and approximations involved
25 in a particular column, the answer would be yes, but

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1 I would --
2 Q. Which column are you referring to?
3 A. The column headed Z, Z variable. But it would
4 be my normal practice to be -- to remain unconvinced
5 at that point because there is some other issues that
6 one would want to explore before one reached that
7 conclusion.
8 Q. Specifically what number are you referring to?
9 A. 3.8.
10 Q. Let me direct your attention to the next page
11 which is page 4 of the exhibit. Now, this appears to
12 be the output for the reported poor health status
13 equation; is that right?
14 A. Yes.
15 Q. Let me direct your attention to the variable
16 marked PREVSTAR.
17 A. Yes.
18 Q. Now, does that variable refer to previous
19 disease?
20 A. I think that's right, but I'm not sure. I would
21 have to check it.
22 Q. Assuming that it does, is that variable
23 statistically significant in this equation?
24 A. Same answer by the assumptions and calculations
25 of the Z column the answer would be definitely yes.

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- 1 But I wouldn't want to stop there; there would be
2 further questions to consider.
3 Q. Let me ask you about the ever smoke variable in
4 this equation. Do you see that?
5 A. I see it.
6 Q. Now, that variable represents smoking, right?
7 A. Yes.
8 Q. Now, the variable itself is positive at .44,
9 correct?
10 A. .04.
11 Q. I'm sorry. .04?
12 A. Yes. That's what that little minus one means.
13 They told you that once and you forgot.
14 Q. You're right. But it is not significant
15 according to this --
16 A. According to the Z measure, right.
17 Q. -- Z measure, right?
18 A. That's right.
19 Q. Let me direct your attention now to the sixth
20 page of Exhibit 4882. I want to ask you whether or
21 not that is your NA expenditure equation for the
22 regression analysis.
23 A. What's the fax number page?
24 Q. I think it's page 14.
25 A. I don't have a 14.

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1 Q. I see page 14 at the top there and it looks like
2 page 8 at the bottom. Page 8 in the right-hand
3 corner. My question is whether or not this is the NA
4 expenditure.

5 A. Yes.

6 Q. Let me direct your attention to the Health Star
7 variable, about a quarters of the way down the first
8 column.

9 A. Yes.

10 Q. That variable represents poor health, right?

11 A. That may well be correct, but that's something I
12 would have to check. I don't remember the definition
13 of that variable.

14 Q. Maybe at a break if you could check that.

15 A. Okay.

16 Q. Let's assume for the purposes of the question
17 that it does represent poor health. Would you agree
18 that it is positive and significant?

19 A. It's positive and significant by this particular
20 measure which I cautioned about.

21 Q. Let me direct your attention now to the next
22 page of Exhibit 4882 which is page 9 of the fax. Is
23 this the size of expenditure equation?

24 A. Yes.

25 Q. Once again, let me direct your attention to

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- 1 Health Star about halfway down the page on the first
2 column.
3 A. Yes.
4 Q. Now, assuming that variable represents poor
5 health, is that variable positive and significant?
6 A. It's positive and it's significant by the
7 standard of the Z statistic which should properly not
8 be the last word on this.
9 Q. Let me ask you this: Do you know whether the
10 Health Star variable in this equation represents poor
11 health or would you have to check that too?
12 A. I would have to make the same check.
13 Q. Could you do that as well?
14 A. Yes.
15 Q. Now, is smoking significant in either the any
16 expenditure equation or the size of expenditure
17 equation? If you could just take a moment. Let's
18 look at the any expenditure equation first which is
19 on page 8 of the fax.
20 A. No, not by the standard of the Z statistic.
21 Q. If you look at the size of expenditure equation
22 on page 9, it's -- strike that. The smoking variable
23 is not significant in that equation either, right?
24 A. Fax page 9?
25 Q. Fax page 9.

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- 1 A. That's correct. That was one of the ones I was
2 referring to in my last answer though, so I don't
3 know. Maybe I didn't do the right thing in the last
4 answer.
- 5 Q. Well, it may have been just a lack of priority
6 in my question, but the question is really pretty
7 simple and straightforward. The smoking variable in
8 the NA expenditure or eyes of expenditure equations
9 is not significant, right?
- 10 A. Not separately. I don't know what you would get
11 if you did a joint test.
- 12 Q. I'm talking about separately.
- 13 A. And so not separately and not by the particular
14 standard that's printed out here called the Z
15 statistic which involves certain unrealistic
16 assumptions. So it's a bit of an accrued measure.
- 17 Q. Now, would you agree that once you have a
18 disease like lung cancer, that whether you're a
19 smoker or not is not going to affect expenditures for
20 medical care to treat that disease?
- 21 A. No, I don't agree with that. It might not.
- 22 Q. You say it might not?
- 23 A. I think it's an empirical question. I don't
24 think I can answer that as a matter of principal.
- 25 Q. Well, let me ask you this: Have you ever

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1 investigated to see whether or not when one continues
2 to smoke once lung cancer is discovered has any
3 effect on medical expenditures on to treat that lung
4 cancer?

5 A. I have not made that study.

6 Q. Do you have any information to answer that
7 question?

8 A. It's possible that I do, but I haven't thought
9 about it so I'm not sure.

10 Q. So as you sit here today, you're not sure
11 whether you can answer the question?

12 A. I'm sure I can't answer the question today, but
13 there is a lot of data involved in this matter and
14 available more generally so I wouldn't be surprised
15 if that question could be meaningfully addressed. I
16 don't know it.

17 Q. Now, we ran your programs, but we didn't find
18 any results for the regression analysis. Did you
19 actually calculate results --

20 MR. BIERSTEKER: Object to the form.

21 BY MR. HAMLIN:

22 Q. -- in terms of dollars?

23 A. Yes. I'm surprised. I thought you had that. I
24 have the output here, so if there is some difficulty
25 your expert is having, this may help him.

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- 1 Q. Well --
- 2 A. Let me add. I understand the difficulty of
3 going both ways of communicating this information.
4 Say if that -- if there is a problem with that, I
5 stand ready to help him out.
- 6 Q. Perhaps at the break we can mark your exhibits
7 and then you can just identify them for the record.
8 I don't want to take up the time in the deposition
9 now to do that.
- 10 A. I don't think it's a practical way to solve it
11 anyway. It seems like it's sort of an expert thing,
12 but I have sympathy for experts, and if he can't
13 find -- I think I cannot only stand ready, I could
14 suggest ways to help him out to find that and be glad
15 to do it.
- 16 Q. Can you tell me what your results were with
17 respect to expenditures, if you have that in front of
18 you?
- 19 A. I can read for you the total expenditures for 19
20 and above. Is that what you want?
- 21 Q. Yes.
- 22 A. It's 9,116,450,737.
- 23 Q. Did you calculate an expenditure for smokers 19
24 and above?
- 25 A. No, I don't have that number.

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- 1 Q. So the number that you just gave me is total
2 expenditures in NMES for persons on public aid 19 and
3 above; is that right?
- 4 A. I don't think it's a NMES number. I think it
5 comes out of your -- it's based on NMES data and also
6 is based on the entire VHS calculation. Certainly,
7 you know, it's a -- well, best answer is it's a --
8 although there is NMES data involved, you would be
9 not correct to say it's the NMES data.
- 10 Q. Well, what does the number represent?
- 11 A. It's total pots. I thought you were asking me
12 for a total, and that's -- my computer output is very
13 cryptic here, and I'm just reading a variable called
14 SUMVEP which I'm taking to be a total pot number.
- 15 Q. Now, did you break down that pot into separate
16 calculations?
- 17 A. No, I don't have printed out here the answer to
18 that question.
- 19 Q. You conclude, however, that your regression
20 analysis finds no smoking attributable expense; is
21 that right?
- 22 A. Yes.
- 23 Q. Now, do you have any basis in terms of dollar
24 calculations to support that conclusion?
- 25 A. Yes.

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- 1 Q. That's what I want to find out.
2 A. Well, then you're asking for the smoking
3 attributable expense. Do you want me to read that?
4 Q. Yes.
5 A. The negative minus, 535,364,915.
6 Q. Is that for -- well, what group is that for?
7 A. 19 years and older.
8 Q. And that's everyone in this regression analysis,
9 right?
10 A. Yes.
11 Q. Did you calculate confidence intervals for this
12 regression analysis?
13 A. No. I certainly don't have them printed out,
14 and I believe they're not part of the VHS programs.
15 I definitely don't have them -- or at least I
16 certainly don't have them on this tab.
17 Q. Now, in reaching that number, did you first
18 predict expenditures for the sample as they actually
19 are; that is smokers and non-smokers?
20 A. No, it doesn't work that way. Should I explain?
21 Q. Sure.
22 A. The sample -- what I have in mind in the sample
23 is NMES public aid data which is being analyzed in
24 the context of the plaintiffs' diminished health
25 status broader calculation. That information is

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1 basically squeezed down to some coefficients, and
2 then the individuals are lost at that stage of the
3 calculation. So the information survives in the form
4 of certain regression coefficients that are passed to
5 another part of the program.

6 Q. So you didn't treat smokers as non-smokers and
7 then look at the difference in the smoking
8 attributable expenditure, right? Strike that.

9 You didn't treat smokers as non-smokers and
10 then look at the differences in expenditures in order
11 to come up with the smoking attributable expenditure;
12 is that right?

13 A. Well, there is a calculation that is -- of that
14 character, but it is not done on the NMES sample.
15 It's done on the -- let me track back. It's done on
16 BRFSS.

17 Q. So tell me about that calculation.

18 A. The first thing you'd say is it's really very
19 complicated, but the -- it's not my complicated
20 thing, it's complicated the way it arrived from your
21 experts. I'm trying to boil down the answers.

22 There is a point in the calculation where
23 there is a subtraction, and the subtraction involves
24 the expenses for a person -- I guess you would call
25 them actual -- I wonder if that's right. Let me

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1 think.

2 I think they're not actual; I think they're
3 what a particular equation would calculate for them
4 without changing any of the characteristics of the
5 individual from what they actually are reported as.
6 And then from that number is subtracted another
7 number which comes from the same equation, except
8 that there is a flag for smoker -- if the flag for
9 smoker is set to -- ever smoker is slipped to never
10 smoker, and the result of that subtraction is a
11 smoking attributable expense, that's really the thing
12 of the somewhat complicated calculation --

13 Q. You have a set of notes that you're referring
14 to. Can you tell me what that is?

15 A. Yes, the same ones that you've already looked at
16 and I think are marked. It's my notes on this
17 diminished health calculations. They were present at
18 the last deposition.

19 Q. Do you have notes that you're referring to that
20 we did not mark at the last deposition because you
21 have created them after?

22 A. Yes, I have lots of them.

23 Q. But the notes that are in your lap, are those
24 notes that you've created since your last
25 deposition? I'm talking about the loose pages.

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1 A. Good. That makes it easier. The red marks that
2 have been written on the black and white material
3 is -- are marks that I made since the last
4 deposition. This that I'm showing you is a loose
5 note that I'm not making any use of, but I just
6 didn't throw it away so it's in the pile. Unless you
7 want it, I'm going to throw it away.

8 Q. What else do you have?

9 A. I'm looking. There are several pages that are
10 identical to what you had before and there is others
11 where I have added some red marks.

12 Q. Why don't we do this: Let's just mark this as
13 a group exhibit.

14 (Wecker Deposition Exhibit No. 4883 marked for
15 identification.)

16 BY MR. HAMLIN:

17 Q. I show you what has been marked as Deposition
18 Exhibit 4883. This is a group exhibit of eight
19 sheets of paper which bear your handwriting; is that
20 right?

21 A. Yes.

22 Q. Now, you produced this information at the last
23 deposition, but since that time you have included
24 some additional writing --

25 A. That's right.

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1 Q. -- on portions of those pages, right?
2 A. Right.
3 Q. Which of the pages refers specifically to the
4 regression analysis that you reference in your
5 supplemental expert report?
6 A. None of them. But some explanation would help.
7 Q. Sure.
8 A. These notes are notes of my understanding in a
9 diagram of the plaintiff models. One of the
10 plaintiff models is the diminished health model which
11 would be diagramed on the last page of this exhibit.
12 And I was referring to it in the context of your
13 questions about what we're calling for short the
14 regression, because that analysis begins with and
15 makes important use of the plaintiffs' diminished
16 health plan.
17 Q. Now, you have a notebook in your lap. Does that
18 notebook include the results from the regression
19 analysis?
20 A. Yes.
21 Q. And has that entire notebook been marked as
22 exhibit from the last deposition?
23 A. No, this is all new.
24 Q. Why don't we mark that notebook.
25 (Wecker Deposition Exhibit No. 4884 marked for
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1 identification.)
2 BY MR. HAMLIN:
3 Q. I want to show you what's been marked as
4 Deposition Exhibit 4884 which is a notebook. Could
5 you review for me the caption on that notebook?
6 A. Yes. I've written on the spine of the binder
7 WEW underscore 2. For short, think of it as book 2.
8 It says output from WEW computer code produced
9 98/01/15. That's a date. It goes on to say it's
10 produced with the WEW supplemental report.
11 Q. Now, you said that there are results from the
12 regression analysis in that notebook. Where are
13 they? Are they under a specific tab?
14 A. Yes. They're under tab 15.
15 Q. Does tab 15 -- could you turn to tab 15?
16 A. Okay. I have tab 15.
17 Q. So there are two pages under tab 15?
18 A. Yes.
19 Q. Can you just read the title of the first page?
20 A. Smoking attributable expenditure and totals 19
21 years and older.
22 Q. And then the second page has the same title?
23 A. Yes.
24 Q. Different output?
25 A. Right. It's the same.

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1 Q. Now, are the actual underlying calculations
2 contained in the notebook as well?

3 MR. BIERSTEKER: What do you mean,
4 Tom?

5 THE WITNESS: The computer program is
6 the underlying calculation. The programs are not
7 here. They're provided in electronic form. That's
8 the way I keep them, electronic form.

9 BY MR. HAMLIN:

10 Q. Now, let me ask you some questions about the
11 regression analysis. Why don't we go back to
12 Deposition Exhibit 4882 which is that output from the
13 regression analysis.

14 Now, you've already indicated that your
15 equations include people currently treated for major
16 smoking-related diseases, right?

17 A. Yes.

18 Q. Are you aware that your equations also include a
19 Mill's ratio for being in the not currently treated
20 group?

21 A. Yes. That's a legacy for me; plaintiffs'
22 calculation.

23 Q. Did you consciously leave that Mill's ratio in
24 the equation?

25 A. Yes.

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1 Q. Do you know whether or not that is correct to
2 leave it in when you also include people who are
3 currently treating?

4 A. My opinion was they were never correctly
5 implemented in the first place by plaintiffs; but
6 since they did it, I left it there.

7 Q. Now, did that Mill's ratio come from plaintiffs'
8 refined model or from the diminished health status
9 model?

10 A. I believe it is a legacy from the diminished
11 health status model. Just so we're on track here,
12 maybe we could look in 4882 and see what it is you're
13 referring to so we're both talking about the same
14 thing.

15 Q. Yes. Why don't we turn to page 9 of the Exhibit
16 4882 and let me ask you this: Is the variable
17 LAMBDA CD the Mill's ratio? It's about three quarters
18 of the way down the page.

19 A. I think it is. I'm going to have to check that
20 to be sure, but I think you're right.

21 Q. Now, let me direct your attention to the
22 previous disease equation which I believe is at page
23 5 of the Exhibit 4882. Do you see that?

24 A. Yes.

25 Q. Now, if you look down the column of the

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1 variables there is no gender term in the previous
2 disease equation. Is that a mistake?

3 A. Well it's at least a confusion that I'll have to
4 check on. I thought I had a gender variable here,
5 and so I don't have a good way to clarify the
6 question. That's another thing I'll see if I can
7 figure out over lunch.

8 Q. Could you take a look at the reported poor
9 health status model which is on the next page, page 6
10 of Exhibit 4882?

11 A. Yes.

12 Q. Now, there is no gender variable in this
13 equation either. Can you tell me whether that is an
14 error?

15 A. I cannot. I'll see if I can pursue it before we
16 leave.

17 Q. I take it you intended to include a gender
18 variable in the reported poor health status equation,
19 right?

20 A. That's my recollection, that there was one.
21 Until I investigate, I'd rather not make a guess as
22 to what a good answer to your question is; but I'll
23 try to get you the answer shortly.

24 Q. Let me ask you some questions about the SAFs
25 that you calculated for the Medicaid recipients.

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1 Now, as I understand it, you claim you used the Zeger
2 models to predict smoking attributable fractions of
3 medical expenses for the Medicaid recipients who were
4 deposed in this matter, right?

5 A. I haven't yet figured out where you're
6 inquiring. Is this a new topic?

7 Q. This is a new topic. Page 5 of your report.

8 A. Okay.

9 Q. Do you see the section marked "Omitted
10 information"? You talked about you did an
11 examination of 15 individuals in the Medicaid
12 population, correct?

13 A. That's true. I haven't found where I said it
14 yet. Just a moment. Let me review that. Okay. I'm
15 with you now.

16 Q. As I understand it, you say that you used
17 Zeger's models to predict smoking attributable
18 fractions of medical expenses for the Medicaid
19 recipients who were deposed, right?

20 A. Yes.

21 Q. And this was supposed to illustrate the
22 inadequacies of the factors included in the Zeger
23 models, right?

24 A. Yes, that's one thing it would illustrate.

25 Q. Now, let me show you Trial Exhibit 1511 which is

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1 entitled "Smoking Attributable Expenses Predicted by
2 Plaintiffs' Model for Deponent No. 5." Let me read
3 that again. Trial Exhibit 1511 is entitled, "Smoking
4 Attributable Expenses Predicted by Plaintiffs' Model
5 for Deponent No. 15." Do you see that?

6 A. Yes.

7 Q. Now, this is one of the calculations that you
8 did have SAFs for one of the Medicaid components,
9 right?

10 A. Yes.

11 Q. And just so we're clear, is this for Mr.
12 Collins? I just want to make sure we're talking
13 about the same person.

14 A. I don't know if I have the names.

15 Q. You don't know if you have the names?

16 A. I can be helpful with respect to making sure
17 we're talking about the same person. Could we take a
18 short break?

19 Q. Sure.

20 (Recess taken.)

21 BY MR. HAMLIN:

22 Q. So you checked the name and the name is correct;
23 is that right?

24 A. The name you said is the name that corresponds
25 to No. 10. Whether they gave it a false name or not,

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1 I don't know. I mean No. 15.

2 Q. Now, when you applied the plaintiffs' model did
3 you apply the age and disease screens in the
4 plaintiffs' model?

5 A. If I understand that question correctly, that
6 part of the process in the plaintiffs' model would
7 have occurred prior to the point where I -- where
8 either I or plaintiffs injects an individual. Let me
9 pause for a minute.

10 I'm not sure I understand the question, but
11 if I do, then I'm correct that to the extent that
12 those things you're calling a screening were present
13 in the model already; I haven't taken them out.

14 Part -- the part of the model where I do
15 this calculation is right in the middle of it, and
16 the screen part is up at the beginning of it.

17 Q. What year or years of data did you use in doing
18 the calculation that appears in Trial Exhibit 1511?

19 A. You mean like -- let me see if I understand the
20 question. You mean like NMES '87? What do you mean
21 by the year of data?

22 Q. Well, specifically the claims data for Deponent
23 No. 15. What years of the claims data did you use?

24 A. Deponent 15 data, I'm reading from part of my
25 computer output that lists the input data for this

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1 calculation for the 15 people, and I see a year of
2 1988, but I would have to check to see if that means
3 we're talking about 1988 data or not.

4 I'm pretty sure I understand the question,
5 but let me just -- to check on it, for example, one
6 of the items that are indicated as an input for this
7 Deponent No. 15 on XX1511 is that their age is 65.
8 There is a year, calendar year, in which they are 65
9 and you're asking what's that calendar year, no?

10 Q. Well, I am specifically now asking what claims
11 data you used in order to come up with the predicted
12 smoking attributable expense SAFs that appear on
13 Trial Exhibit 1511.

14 A. With respect to the input data, but particularly
15 with respect to the claims part of it, okay? I'll
16 nail that down to see what year of data that was.
17 The only indication I have here -- and I've forgotten
18 that detail, but it says year '88. That may be the
19 answer, but I don't know for sure.

20 Q. Do you know what year or years of claims data
21 the plaintiffs used in their models for this
22 individual?

23 A. They wouldn't have used this individual.

24 Q. This person does not appear in the plaintiffs'
25 model at all?

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1 A. I wouldn't expect so, no. As a -- highly
2 unlikely coincidence is possible, but that would be a
3 coincidence.

4 Q. Why don't you think the plaintiffs included this
5 individual in its model, their model?

6 A. I understand this individual to be 1 of 15 that
7 were deposed in the course of this litigation.
8 The -- it is possible, but it would be not
9 necessarily true, but if this person was also one of
10 the people who was surveyed by the BRFSS instrument
11 of the period being used or the NMES instrument, then
12 this person would be included in both, but that would
13 just be an accident.

14 Q. Is this person to your understanding a part of
15 the Medicaid claims data base used by the plaintiffs
16 in their models?

17 A. Their claims would be, yeah. To the extent that
18 they had dollars paid by Medicaid, it would show in
19 the pots.

20 Q. And do you know what years of claims data the
21 plaintiffs used for this individual?

22 A. I see what you mean when you say "this
23 individual", but it wasn't what I was thinking. So
24 what year is the pots data, and not off the top of my
25 head. I would have to try to look that up.

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1 Q. Now, what age did you use for this Deponent No.
2 15 in your calculation which appears in Trial Exhibit
3 1511?

4 A. 65.

5 Q. Do you know what age was used in the plaintiffs'
6 models for this individual?

7 A. I don't think -- again, by coincidence there may
8 be -- it may be that this person was processed
9 through their models, but I don't think so.

10 Q. Do you know what years of claims data -- strike
11 that. Do you know what the age of this person,
12 Deponent No. 15, that is included in the claims data
13 used in plaintiffs' model was?

14 A. I think you mean how old was this person in the
15 year in which the claims data piles were summarized
16 and eventually used and --

17 Q. That's correct.

18 A. No. I won't know that until I figure out the
19 answers to these earlier questions of timing.

20 Q. For the purpose of my subsequent question,
21 assume that I am referring to the Medicaid claims
22 data that references deponent No. 15, right?

23 A. Assume that when you say what?

24 Q. For the purposes of my subsequent question.

25 A. I'm sure this is not going to work. Why don't

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- 1 we -- we'll give it a shot.
- 2 Q. Let me ask you this: What medical conditions
- 3 did this person have that formed the basis for Trial
- 4 Exhibit 1511?
- 5 A. I can tell you the answer to what the medical
- 6 conditions this person has because it's really a
- 7 separate matter from this exhibit. Do you want to
- 8 know that? Do you want to know what the medical
- 9 conditions they had --
- 10 Q. Yes.
- 11 A. I have but I didn't bring -- but I bet you have
- 12 the depositions of these people. In those
- 13 depositions there are questions and answers
- 14 describing their conditions and I think I had a
- 15 summary of it somewhere in here also.
- 16 Q. Let me ask you this: Did you make any use of
- 17 that information in calculating the SAFs that appear
- 18 on Trial Exhibit 1511?
- 19 A. No, that's my point; plaintiffs' model doesn't
- 20 use that information.
- 21 Q. So you didn't make any use of it in calculating
- 22 your SAFs right?
- 23 A. The use I make of it is to complain that
- 24 plaintiffs' models don't take it into account.
- 25 Q. Can you answer my question?

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- 1 A. I thought I was.
- 2 Q. Did you make any use of the medical condition
- 3 information that you had about this person in
- 4 calculating the SAFs that appear on Trial Exhibit
- 5 1511?
- 6 A. Only to the extent that you might consider some
- 7 of the items on Exhibit 1511 as medical conditions;
- 8 overweight might be considered a medical condition.
- 9 Q. Did you take into account any other medical
- 10 conditions?
- 11 A. No. Only the ones that the plaintiffs' model
- 12 calls for in the particular calculation referenced on
- 13 Exhibit 1511.
- 14 Q. Now, what was the basis for your conclusions
- 15 about what medical conditions Deponent No. 15 had?
- 16 Was it the deposition?
- 17 A. Setting aside this exhibit you're saying?
- 18 Q. Yes.
- 19 A. Yes. My understanding of their medical
- 20 conditions is informed by their deposition.
- 21 Q. Do you know whether Deponent No. 15 had lung
- 22 cancer and COPD at any time during the period when
- 23 they were on Medicaid?
- 24 A. Let me look it up. I see an indication of chest
- 25 pain which may be responsive, and an indication of

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1 spot on lung which if I'm following the question may
2 be responsive. I'm not sure I'm quite with you.
3 Abnormal EKG I have a note here.

4 Q. Well, does your record that you are making
5 reference to have any reference to lung cancer and
6 COPD for this deponent at any time during the period
7 when they were on Medicaid?

8 A. I don't see those words, but I see words that
9 would to me amount to that.

10 Q. Chest pain; is that what you're --

11 A. Abnormal EKG.

12 Q. Abnormal EKG; is that right?

13 A. That's just the same ones that I read to you a
14 minute ago. And to clarify, you say whatever I'm
15 looking at, it's Exhibit 1564 so there's no confusion
16 here.

17 MR. BIERSTCKER: Demonstrative Exhibit
18 1564 as opposed to Deposition Exhibit.

19 BY MR. HAMLIN:

20 Q. Tell me about Demonstrative Exhibit 1564. Does
21 that have the same basic information that you used in
22 calculating the SAFs for Deponent No. 15 that appear
23 in Trial Exhibit 1511?

24 A. It has some of that information, but evidently
25 not all of the information on it. The information

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1 overlap a lot, but they're not identical.

2 Q. And did you put together a lot of that
3 information?

4 A. Not myself, but somebody working with me did.

5 Q. Do you know what the medical expenditures for
6 Deponent No. 15 were in 1988?

7 A. I don't see that information. I've got another
8 place to look.

9 MR. BIERSTEKER: May I ask for
10 clarification on this question? Do you mean the
11 predicted expenditures or the claims data
12 expenditures?

13 MR. HAMLIN: I'm talking about claims
14 data.

15 THE WITNESS: I don't see the claims
16 data information printed out here.

17 BY MR. HAMLIN:

18 Q. Did you make use of the claims data use
19 information in calculating the SAFs that appear in
20 Trial Exhibit 1511?

21 A. I don't think so.

22 Q. Did you make any use of the claims data at all
23 in preparing Trial Exhibit 1511?

24 A. Yes.

25 Q. You did. What use did you make of the claims

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1 data?

2 A. Well, the Exhibit 1511 is making use of the
3 plaintiff CHD stroke model.

4 Q. When I talk about claims data, I'm talking about
5 basic Medicaid claims data for the Deponent No. 15
6 for the years which they received Medicaid. Do you
7 understand that?

8 A. You mean as distinguished from pots?

9 Q. As distinguished from pots.

10 A. Well, with that in mind, I think the answer is
11 no, but let me check again. Your calculation is
12 quite complicated in that one. Let me take a look.
13 I think not.

14 Q. Did you use the claims data as a check to see
15 whether or not the SAFs that you calculated in Trial
16 Exhibit 1511 were reasonable?

17 A. At least I don't recall doing it. That may be
18 something we did, but I don't have a recollection of
19 it.

20 Q. So would it be fair to say you don't know how
21 much this person had in medical expenditures for 1993?

22 A. I don't have it in my head. I may have that
23 information.

24 Q. But you didn't make any use of it in preparing
25 this trial exhibit, right?

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- 1 A. No, it doesn't make use in figuring in the
2 preparation of the trial exhibit.
- 3 Q. How did you determine this variable of weight
4 that appears as one of the input factors in Trial
5 Exhibit 1511?
- 6 A. Those are plaintiffs' defined variables using
7 their definitions.
- 8 Q. But how did you arrive at the indication that
9 this person was severely overweight?
- 10 A. By -- that's a category; severely overweight is
11 a category. And even a variable name the plaintiffs
12 have constructed, and we followed their construction.
- 13 Q. How did you make the determination to put
14 Deponent No. 15 into that category?
- 15 A. By looking at the weight of the deponent -- of
16 this deponent. If I remember their height figures --
17 I've forgotten exactly. Following the prescription,
18 if I understand, that is the prescription laid down
19 by your experts.
- 20 Q. Was there a record or a document that you looked
21 at in order to determine this person's weight?
- 22 A. Yes.
- 23 Q. What was that?
- 24 A. The only thing I'm going to have here is a
25 summary of that, but I'll find that if you're

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1 interested.

2 Q. Well, was it part of their medical record that
3 you looked at?

4 A. Just a moment. Backing up one step from the
5 chart 1511, I'm looking at my input data for that,
6 and I had a variable name for weight, and for
7 Deponent ID 15 I see weight is 225 pounds.

8 Q. I'm asking you where you got that from, that's
9 all.

10 A. In the first instance for this calculation I got
11 it from this file here. Then if we want to know
12 where I got it -- how this file got it, I would go
13 back yet another step - and I have that material
14 here - and that is the spread sheet format. But
15 anyway, if I find it --

16 Q. Can you identify the basic source that you used
17 for that information?

18 A. Maybe you're getting hungry over there. I'm
19 giving you the best answers I can and I'm working
20 back in the trail. I don't have anything here that
21 would go back beyond the place that I've gone in the
22 trail, but I believe -- if I had the deposition here,
23 I would look there and see if it says it in there,
24 and then that would, I believe, be the source that
25 preceded the two that I mentioned.

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1 Q. Did you review the deposition and record that
2 information?

3 A. I've reviewed some of these depositions, but I
4 actually didn't do the work myself for the --
5 comprehensively; I had other people doing that. But
6 I've had the depositions in my hand and I've looked
7 at highlighted information about these things.

8 Q. So staff members took that information from the
9 deposition and medical records and basically included
10 it; is that how it worked?

11 A. No. Since I wasn't physically present, I would
12 think that must describe it generally, but I asked
13 that that information be put into a computer file and
14 in a systematic way for making this calculation, and
15 I believe that the deposition is our source for that.
16 But if I'm wrong about that, I'll let you know.

17 Q. Now, in Trial Exhibit 1511 you indicate that
18 there is a home health smoking attributable fraction
19 of 62 percent. Do you see that?

20 A. Yes.

21 Q. Do you know what this person's home health
22 expenditure was during the entire time they were on
23 Medicaid?

24 A. Certainly not off the top of my head.

25 Q. Have you checked?

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- 1 A. We may -- we may have that information, but I
2 don't recall the information as I sit here.
- 3 Q. Would it surprise you to learn that it was zero?
- 4 A. I don't know. It may well be zero.
- 5 Q. Did you go to any of the BRFSS cells in the
6 plaintiffs model to see what the model calculated for
7 persons with characteristics similar to deponent in
8 number 15?
- 9 A. I don't understand that question.
- 10 Q. Do you have any understanding of the BRFSS cells
11 in the plaintiffs' model?
- 12 A. Which model?
- 13 Q. The CHD model because that's the one involved
14 with 1511, which is the refined model as I understand
15 it.
- 16 A. It's a piece of it. Now, I'm about to answer
17 your question about cells, BRFSS cells. The point
18 where the calculation is made corresponding to chart
19 1511, the calculations not preceding by BRFSS cells.
20 It's preceding by BRFSS person.
- 21 Q. So you did not use any of the BRFSS cells in
22 calculating the SAFs that appear on Trial Exhibit
23 1511, right?
- 24 A. I really don't understand the question, but to
25 the extent that -- I'll answer it this way: I'm not

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1 using a BRFSS cell to do this; I'm using an
2 individual. If I ever figure out what you mean by
3 the cells, maybe they're involved elsewhere in the
4 calculation, but I think they may be categories that
5 are used subsequent to the calculation therefore they
6 wouldn't be influencing this.

7 Q. Do you know what the SAF was for this particular
8 deponent with these characteristics in the
9 plaintiffs' model was?

10 A. Yes, it's the one I calculated.

11 Q. Do you know what the overall SAF was?

12 A. What does that mean? I'm not sure.

13 Q. For this individual do you know what the SAF
14 was?

15 MR. BIERSTEKER: Object to the form.

16 THE WITNESS: I don't understand the
17 question because the calculation doesn't do that. It
18 makes a separate calculation for each of these
19 categories.

20 BY MR. HAMLIN:

21 Q. Did you go back and check -- well, let me put it
22 this way: You didn't go back and check to see what
23 the BRFSS cell SAF was for individuals with
24 characteristics such as deponent No. 15, correct?

25 A. You're going to have to clarify for me what you

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1 mean when you call it -- when you say cell SAF. That
2 is not a term that I've used in my analysis of this
3 program.

4 Q. Do you know whether SAFs are calculated in any
5 of the BRFSS cells in the plaintiffs' model?

6 A. What do you mean by BRFSS cell?

7 Q. You don't have any understanding of that term?

8 A. No, it's not a term I've used when I have
9 studied this thing. I can tell you what I understand
10 of it and I probably can tell you what you're talking
11 about, but it's not a term I've used.

12 Q. You didn't go back to and check to see whether a
13 group of individuals with characteristics similar to
14 those of deponent 15 had a SAF calculated in the
15 plaintiffs' model?

16 A. SAFs -- if we're thinking alike, I'm not sure,
17 but the SAFs are calculated by individual, by BRFSS
18 person. By expense category. That's how they're
19 done; they're not done any other way. They're done
20 one person at a time.

21 Q. They're not done in cells?

22 A. No. They're done one person at a time.

23 Q. And cells have absolutely nothing to do with
24 calculation of the SAF; is that right?

25 MR. BIERSTEKER: Object to the form of
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1 the question.

2 THE WITNESS: If you teach me what you
3 mean by cell, maybe I can figure out what you're
4 talking about. But at the point where the smoking
5 attributable expenses are calculated -- oh, maybe I'm
6 figuring out what you mean. Let me look subsequent
7 to this.

8 I'm going to take what I think's a good
9 guess of what you mean by the cells. This individual
10 is assignable to a cell, but -- and some of the
11 characteristics of the cell will be influential to
12 the SAF, but they are accounted for in the
13 calculation.

14 BY MR. HAMLIN:

15 Q. Let me direct your attention to the hospital SAF
16 on Trial Exhibit 1511.

17 MR. BIERSTEKER: Do you want to take a
18 break for lunch?

19 MR. HAMLIN: Sure. Let me finish
20 this.

21 BY MR. HAMLIN:

22 Q. Let me direct your attention to the hospital SAF
23 on Trial Exhibit 1511. Do you see that?

24 A. Yes.

25 Q. What year does that SAF reference? Is it the
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1 year that this person was 65 years old?

2 A. Well, I'm trying to think of the best answer for
3 that. In the first instance it's what you get when
4 you put the information on the left, including age
5 65, into the calculation.

6 BY MR. HAMLIN:

7 Q. Do you understand what I'm asking you? Is what
8 year that information --

9 A. Calendar --

10 Q. What calendar year that claims information came
11 from in order to calculate that SAF?

12 MR. BIERSTEKER: Object. It
13 mischaracterizes the prior testimony which I think
14 has been that the witness' understanding is that the
15 claims data were not used to make that calculation.

16 BY MR. HAMLIN:

17 Q. Let me ask it this way: Forget about claims
18 data. What information from what year was used to
19 calculate the hospital SAF that you have on Trial
20 Exhibit 1511?

21 A. Part of the information for this individual, and
22 I've told you, I'm -- well, I have a -- I do have
23 date of birth. I hope at lunch I can find that and I
24 can actually figure out in what year they are 65,
25 because I believe that there is a date of birth

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1 information here.

2 Q. Now, does that SAF apply to the age -- strike
3 that -- the year that they turn 65?

4 A. I don't think it applies to anything. The whole
5 point of this is this is an unsatisfactory reliable
6 calculation that I wouldn't want applied to anything.

7 Q. In coming up with the SAF of minus 105 percent
8 for the hospital, does that SAF reference the year
9 the person turned 65 years old?

10 A. I think that would depend on how one would
11 intend to use it. Plaintiff's -- don't laugh.

12 Q. I'm not laughing. I'm just expressing
13 frustration because -- I'm not trying to mislead you
14 here. I'm not trying to trick you into anything.
15 I'm just asking you a simple and straightforward
16 question.

17 You have a SAF here of minus 105. Does
18 that represent the SAF for the year that the person
19 turned 65 or does it represent a SAF for some other
20 year. That's really all I'm asking, Dr. Wecker.

21 A. The point that I'm trying to get out, which
22 makes the question not as easy to answer as you might
23 think, is that when this SAF is used -- a SAF is
24 used -- this SAF doesn't get used by the plaintiffs'
25 calculation at all; this is just mine.

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1 But when a SAF something like this is used,
2 it's applied to all kinds of different years, and
3 sort of as if it's broadly applicable. So if we go
4 down that trail in the answer, we could see how SAFs
5 like this are used and what is the assumption
6 implicit in their use as to where they are
7 applicable.

8 But that's not what I'm doing; I'm not
9 running out and applying this to some other
10 information. I'm just saying if you use this input,
11 you get this answer.

12 Q. What I'm asking you is in order to get the
13 output of a SAF of minus 105, what did you factor in
14 as the person's age?

15 A. 65.

16 Q. And did the data that you use relate to the
17 claims data for when that person was 65 years old or
18 not?

19 MR. BIERSTEKER: Object to the form.

20 THE WITNESS: Their claims?

21 BY MR. HAMLIN:

22 Q. Yes.

23 A. I'm not using their claims.

24 Q. And it's true, isn't it, that for all of the
25 deponents for whom you calculated SAFs, you never

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1 used any of their claims data from the Medicaid
2 files, right?

3 MR. BIERSTEKER: To calculate the
4 SAFs. Is that your question?

5 BY MR. HAMLIN:

6 Q. To calculate SAFs.

7 A. To Cut it short, if you mean specifically theirs
8 as opposed to possibly some aggregate that I would
9 have to think about for a minute, the answer is
10 right, I didn't because it's not called for as an
11 input to this model.

12 Q. Did you check whether any of the hospital SAFs
13 calculated in the plaintiffs' model for this person
14 were minus 105 percent?

15 A. I don't think the plaintiffs used this person.

16 Q. So your testimony is that there is no SAF for
17 this person in the plaintiffs' model; is that right?

18 A. Plaintiffs may find a SAF that they have
19 calculated that they would suggest would be
20 applicable to this person, but that's not how I
21 interpret your question. I don't believe, though
22 it's possible as a coincidence. But I don't believe
23 that this person is one of the people that was
24 processed through this model by plaintiffs.

25 Q. You're not suggesting that the hospital SAF of
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1 minus 105 percent is a SAF that the plaintiffs
2 calculated for this person, correct?
3 A. Right. I calculated.
4 Q. This is your calculation, right?
5 A. It's my input to their model. Do you people eat
6 in Minnesota?
7 Q. I want to finish this and then we can go. Have
8 you checked plaintiffs' model to see what any of the
9 hospital SAFs calculated for this person were?
10 A. They don't have this person.
11 Q. So you haven't checked?
12 A. I don't have to check. They don't have this
13 person.
14 Q. So if I told you that the SAFs were different in
15 the plaintiffs' model from what you calculated, that
16 would be a surprise to you, right?
17 A. No. Their numbers are frequently all over the
18 map. If we turn to Exhibit 1511, you see other
19 numbers, or 1513 you see other numbers.
20 Q. What I'm asking you is very simply, if I told
21 you that the SAFs for hospital, ambulatory,
22 prescription and home health for Deponent No. 15
23 calculated by the plaintiffs were far different than
24 the ones that you calculated would that surprise you?
25 A. The part that would surprise me is that they've

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1 calculated the SAF for this person. I don't believe
2 they did.

3 Q. In any case, you never checked that, right?

4 MR. BIERSTEKER: Checked what? Object
5 to the form.

6 THE WITNESS: Checked that they've
7 calculated for this -- well, I can -- well, I guess I
8 haven't. I can look through the BRFSS person data
9 and see if I see correspondence, but I doubt that
10 we're going to see that.

11 I have a further elaboration, if I may.
12 If I checked for that BRFSS data and looked for these
13 same inputs, I'm going to get exactly the same
14 answer; I can tell you that much.

15 BY MR. HAMLIN:

16 Q. And if I told you that the plaintiffs model
17 calculates something far different would that be a
18 surprise to you?

19 A. It would suggest that they have a different
20 interpretation in mind. And maybe on understanding
21 their interpretation, I could see their point of
22 view, but until I hear it, I don't know exactly what
23 they had in mind.

24 MR. HAMLIN: Let's break.

25 (Recess taken.)

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1 (Time: 12:35 p.m.)
2 (Wecker Deposition Exhibit Nos. 4885 through 4887
3 marked for identification.)
4 BY MR. HAMLIN:
5 Q. Dr. Wecker, I want to show you some deposition
6 exhibits that have been previously marked while we
7 were off the record. First is Deposition Exhibit
8 4885. That's a notebook. Can you tell me what that
9 is generally?
10 A. Yes. A notebook containing my January 15
11 supplemental report, my affidavit and plaintiffs'
12 supplemental report.
13 Q. Can you see the next deposition exhibit? It
14 should be 4886. I want to show you a notebook that
15 bears Deposition Exhibit No. 4886 and it's titled
16 "WEW Exhibits MN AG April, 1998," correct?
17 A. Yes.
18 Q. Can you tell me just generally what is in that?
19 A. Exhibits beginning with X1477.
20 Q. These are trial exhibits?
21 MR. BIERSTEKER: Demonstrative.
22 BY MR. HAMLIN:
23 Q. Can we go to the next exhibit? I show you
24 what's been marked as Deposition Exhibit 4887. It
25 looks like it's titled "WEW - 3 Wecker supplemental
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1 and material/output and spreadsheets," correct?
2 A. Yes.
3 Q. Can you tell me just generally what that is?
4 A. Computer output and spreadsheets.
5 Q. Is this for the supplemental report?
6 A. I don't -- it's -- I'm not sure. It's just
7 miscellaneous, I guess. I'm not sure how to connect
8 it up as a whole.
9 Q. Do you have any further exhibits that we have
10 marked?
11 A. Yes, there is one more.
12 Q. Dr. Wecker, we have marked your work papers
13 which you have generated since your last deposition?
14 A. Yes. Unless as I discussed, I have made
15 additional marks in my old exhibits, and I don't know
16 the answer to that.
17 Q. Let me direct your attention now to your
18 supplemental expert report which has been marked as
19 Deposition Exhibit 4878. Now, you make reference to
20 a nursing home analysis on page 5, correct?
21 A. Yes.
22 Q. Now, the program which was identified in Mr.
23 Biersteker's letter of March 31, 1998 does not
24 calculate any SAFs or smoking attributable
25 expenditures. For the record, that program is
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1 NHEXPAGEDOTJAKHEFS.SAS. If you could just check your
2 records and see whether or not we could get the
3 program or programs that actually calculate SAFs and
4 smoking attributable expenditures for this particular
5 nursing home analysis on page 4 of your report, I'd
6 appreciate it.

7 Let me ask you this question: In this
8 nursing home analysis, you used NHANES data, correct?

9 A. Yes.

10 Q. Did you set the sampling weights to one?

11 A. I did that with one of the calculations. Could
12 we stop for a minute and maybe go off the record? I
13 haven't got your request.

14 MR. BIERSTEKER: I'm confused about
15 what those calculations are.

16 MR. HAMLIN: Let's go off the record.

17 (Discussion held off the record.)

18 BY MR. HAMLIN:

19 Q. For the nursing home analysis in your expert
20 report, did you set the sampling weights to one?

21 MR. BIERSTEKER: Object to the form of
22 the question.

23 THE WITNESS: Well, I've done more
24 than one nursing home calculation, but in one of them
25 I did.

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1 BY MR. HAMLIN:
2 Q. Let's talk about that one.
3 A. Okay.
4 Q. In that calculation did you find that the state
5 paid no expenses attributable to smoking?
6 A. That's my recollection, but I got to find it to
7 make sure. Yes.
8 Q. Did the --
9 A. Weight. Is this part of the program you
10 couldn't find? I could show it to you.
11 Q. Can you just tell me what notebook it's in?
12 A. Yes. It's on tab 12 of Exhibit 4884.
13 Q. 4884?
14 A. Right.
15 Q. Now, did that analysis where you set the
16 sampling weights to one replicate plaintiffs' model
17 except that you changed the sampling weights?
18 A. Yes.
19 Q. Did you do any other nursing home analyses?
20 A. Yes.
21 Q. And can you tell me how many you did?
22 A. Well, I'll try to recall. I've done one
23 replicating the 60- to 90-year-old of plaintiffs, and
24 I've got another one where I exclude persons with
25 Alzheimer's or Parkinson's.

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1 Q. Let me ask you about the replication of the 60-
2 to 90-year-olds. Did you reach a result different
3 from what Dr. Wyant testified to?

4 A. I don't think so. I think we were able to
5 figure out what he did.

6 Q. Now, is it true that almost all government
7 surveys have sampling weights?

8 A. I don't think one could say that; but it's true
9 often.

10 Q. Does NMES have sampling weights?

11 A. Yes.

12 Q. Did you use the sampling weights in your NMES
13 calculations?

14 A. I believe, yes.

15 Q. Did you set those sampling weights to one in any
16 of your analyses?

17 A. I don't think so.

18 Q. Are there any published studies that you can
19 identify that recommend setting the sampling weights
20 in NHANES to one in the primary analysis of the
21 NHANES data?

22 MR. BIERSTCKER: Object to the form
23 of the question.

24 THE WITNESS: I don't know what the
25 primary part of the question means, but there is a

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1 document that is part of the descriptive material
2 accompanying NHANES that has a paragraph or two in it
3 that discusses that issue, and as I recall, it
4 recommends that as one of the things that can or
5 should be done.

6 BY MR. HAMLIN:

7 Q. Now, when the sampling weights in NHANES are set
8 to one, is it your testimony that that population is
9 representative of the U.S. nursing home population?

10 A. No.

11 Q. Let me ask you this: Is there any published
12 authority that you know of for the proposition that
13 setting weights to one in NHANES is the preferred
14 method in analyzing NHANES data?

15 A. No. The material I'm thinking about doesn't
16 distinguish it as either the preferred or the not
17 preferred; it doesn't pick a preference.

18 Q. So the answer to my question is you don't know
19 of any publication that recommends as a preferred
20 method that the sampling weights in NHANES be set to
21 one, correct?

22 A. I think it's a fair reading of the material I'm
23 recalling to say that a preferred method or a
24 preferred -- at least a recommended sensible and good
25 thing to do is to do that calculation.

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- 1 Q. And does this document that you're referring to
2 indicate that that's the only method to be used in
3 analyzing NHANES data?
4 A. No, it is not.
5 Q. Is this a government publication that
6 accompanies NHANES?
7 A. I think it is. If the next question is what, I
8 can't give you that. I have it in my office. I
9 could very quickly identify it for you.
10 Q. Could you do that and perhaps even send us a
11 copy?
12 A. Sure.
13 Q. Now, sampling weights are calculated for NHANES
14 data, right?
15 A. They are supplied.
16 Q. They are supplied?
17 A. Yes.
18 Q. And they are meant to be used, right?
19 A. Well, that's the issue; they're not meant to be
20 used to the exclusion of alternatives that would not
21 use them. I thought of an easier to say that. It's
22 not suggested that they be exclusively used.
23 Q. Now is it your testimony that the plaintiffs
24 nursing home model is wrong because it used the
25 actual sampling weights supplied by NHANES?

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1 A. No, I don't think that element by itself makes
2 it wrong.

3 Q. Can I ask you this: You have in your expert
4 report a section about the use of the core model --

5 A. I'm sorry I'm interrupting, but I wasn't
6 listening anyway so you might as well -- I was still
7 thinking about the last thing.

8 It may -- I'm about to say to your
9 question, is it my testimony that it may well be that
10 the weights in this particular application cause a
11 wrong result, that may well be true.

12 Q. Have you reached that opinion as you sit here
13 today?

14 A. I have not because there are so many other
15 things that are going on that I think are also
16 sources of error that it's not possible for me to
17 parse out which factor might be responsible for which
18 portion of the error.

19 Q. Let me ask you this: With respect to this
20 nursing home analysis where you excluded Alzheimer's
21 and Parkinson's, what was the basis for excluding
22 those two conditions?

23 A. It's my understanding that those are not
24 conditions that are -- that are attributable to
25 smoking.

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1 Q. And what's that understanding based on?

2 A. Well, it's been a part of my background and
3 knowledge for years so I'm not sure where I first
4 heard it, but I think it's been mentioned by one of
5 your experts in this case.

6 Q. Well, have you made any investigation of the
7 literature on whether or not Parkinson's is caused by
8 smoking?

9 A. I'm sure at sometime, but I can't put my finger
10 on it. I've seen literature that says the opposite;
11 it says it's protective. I'm a statistician so I
12 don't use the cause word. I use the association
13 concept. So I mean protective in that sense.

14 Q. And did you make any kind of a study in this
15 case of the literature on Parkinson's and smoking?

16 A. No, I don't recall that I did.

17 Q. Did you make any study in this case of the
18 literature on Alzheimer's and smoking?

19 A. I may have looked at an article, but I can't
20 think of one. I do recall a statement by one of your
21 experts. I just can't remember which -- it might
22 have been Samet.

23 Q. And what was that statement?

24 A. It was consistent in supporting of the view that
25 smoking is protective for those particular conditions.

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1 Q. So it's your testimony that Dr. Samet testified
2 that smoking was protective of Alzheimer's and
3 Parkinson's?

4 A. We don't need my paraphrasing or recollection of
5 his testimony; it is what it is, but it was
6 essentially that or at least was consistent with that
7 understanding that I had.

8 Q. Now, let me direct your attention to page 3 of
9 your supplemental report where you talk about the
10 core model analysis applied to the entire public aid
11 sample. Do you see that?

12 A. Yes.

13 Q. Now, we did get a disk on Thursday, April 16th
14 of the core model calculation that apparently you
15 reference at page 3 of your supplemental expert
16 report. The disk with the information that we had
17 prior to that time, as I understand it, was in error,
18 right?

19 A. I don't recall.

20 Q. Well, do you recall rerunning it because of an
21 error?

22 A. No, at the moment I don't. Let me look that up
23 and see what I see. I don't actually recall the
24 replacement you're talking about. It may well be
25 true. I've just forgotten about that.

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1 Q. Did you run this core model that you're
2 referring to on the Blue Cross data?
3 A. I don't see any Blue Cross calculation.
4 Q. Do you know why you didn't do a Blue Cross
5 calculation?
6 A. Because I was doing a public aid calculation.
7 Q. Now, I'm going to show you what's been marked as
8 Trial Exhibit 30,153, and I'm going to indicate to
9 you that that is a list of ICD9 codes that Dr. Samet
10 supplied to the plaintiffs' damages' experts. Let me
11 ask you this: What ICD9 code diseases and conditions
12 did you include in this core model?
13 A. I've got a -- I can't tell you that from memory,
14 but I think I have a list here somewhere. Speaking
15 first in a summary fashion, they're the ones on the
16 list you just handed me, plus some more from the
17 Surgeon General's list. Would you like me to find
18 the list?
19 Q. Yes.
20 A. I can point you to a program, but I don't have
21 the electronic stuff here. Program OUT3C -- then I
22 can't read my writing; if this is a 1 or an L.
23 V2.SAS. If you look in that code, you should see the
24 ICD9s.
25 Q. Now, in the plaintiffs' core model there were
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1 two groups of diseases; lung cancer COPD and CHD
2 stroke. Do you remember that?
3 A. Yes.
4 Q. Did you use those two groups in this core model
5 estimate that you are referring to in your expert
6 report?
7 A. They're included.
8 Q. What other groups did you include?
9 A. Including all health conditions.
10 Q. For all public aid people on NMES?
11 A. Right.
12 Q. And did you combine all the groups?
13 A. I have a combined result, yes.
14 Q. So you didn't break out the results by lung
15 cancer COPD --
16 A. Separately you mean?
17 Q. Separately.
18 A. Those two things, no.
19 Q. Do you recall as part of your conditions you
20 added cold or flu?
21 A. I think the answer would be yes. I don't
22 specifically recall it, but I believe it would be.
23 Q. And in adding those ICD9 codes did you -- well,
24 did you consult with an epidemiologist?
25 A. I think of myself as an epidemiologist so I

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1 don't know what you mean. An epidemiologist, to get
2 our terms traded here, to me is someone who uses
3 statistical methods to study health questions.

4 Q. Did you seek the advice of anyone other than
5 yourself in adding these additional ICD9 codes?

6 A. No.

7 Q. Are you relying on anything that Dr. Samet said?

8 A. I don't think I have a necessary reliance, but I
9 wouldn't rule out that he said some things that might
10 be consistent or supportive of this. But I didn't do
11 it when you decided Samet decided to do it.

12 Q. Would you agree that the plaintiffs' core model
13 was, at least as the plaintiffs present it, designed
14 to identify some of the major diseases related to
15 smoking?

16 MR. BIERSTCKER: Object to the form of
17 the question.

18 THE WITNESS: Yes. I would agree with
19 that.

20 BY MR. HAMLIN:

21 Q. Would you also agree that in the plaintiffs'
22 refined model as well as in the diminished health
23 status model plaintiffs added additional factors and
24 controlled for those factors in order to determine
25 the effects of smoking?

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1 A. I'll agree they added additional factors.

2 Q. Do you have any understanding as to why they
3 added additional factors?

4 A. In an attempt to adjust their estimates to deal
5 with possible issues of confounding.

6 Q. Let me ask you this: Would you agree that it is
7 more difficult to identify the consequences of a
8 diminished health status that's caused by smoking
9 versus the consequences of lung cancer caused by
10 smoking?

11 MR. BIERSTEKER: Objection to form.

12 THE WITNESS: No, I wouldn't agree
13 with that.

14 BY MR. HAMLIN:

15 Q. So both are equal in terms of identifying
16 expenditures related to those conditions?

17 A. I don't think I'd rely on equal either. I'm
18 just not ready to jump out and take a position on
19 where the greater complication lies; both are
20 complicated issues.

21 Q. But in terms of ranking --

22 A. You've got my answer. I don't know.

23 Q. You can't rank which is more difficult, finding
24 the expenditures attributable to lung cancer or
25 finding the expenditures attributable to diminished

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1 health; is that correct?

2 MR. BIERSTEKER: Object to the form of
3 the question.

4 THE WITNESS: No. There are
5 complications in both and -- so I don't see an easy
6 way to rank them. Part of the difficulty with
7 ranking complications is that they -- complications
8 are of a variety of kinds, and ranking is a
9 phenomenon that requires this variety of
10 complications which are different of kind and can be
11 reduced to some scale or value and then compared.
12 That's the challenge. I don't know how that could
13 come out.

14 BY MR. HAMLIN:

15 Q. Well, in attempting to identify smoking
16 attributable expenditures as a result of diminished
17 health, would you agree that it is advisable to try
18 to control for as many factors as possible?

19 A. Well, the way you pose the question, it contains
20 its own answer. Sure, you should do whatever is
21 possible to do, I would guess, within some scope of
22 time and budget.

23 Q. In calculating the --

24 A. I don't think -- I'm sorry. You're asking me
25 new things I haven't thought about so it takes me a

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1 minute. I don't think that answer at all is special
2 to diminished health.

3 Q. In calculating the expenditure for the core
4 model that you did in your expert report, did you
5 draw the third reduction in the NMES data?

6 A. I think so. Let me check. I almost got it. I
7 haven't pinned it down in the spread sheet, but
8 that's what I remember.

9 Q. Now, that's not what the plaintiffs did in their
10 core model, correct?

11 A. It's not what they did.

12 Q. It's not what they did, right?

13 A. That's right.

14 Q. Plaintiffs used the Minnesota claims data for
15 the third reduction, right?

16 A. Right.

17 Q. Now, the core model as the plaintiffs presented
18 it used only public aid expenditures, right?

19 A. I don't think so.

20 Q. Strike that. As the plaintiffs presented the
21 core model, they had estimates for both the State of
22 Minnesota and Blue Cross, right?

23 A. Yes. I don't have it in front of me, but it's
24 my recollection.

25 Q. Your core model applies only to public aid

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1 expenditures, right?

2 A. I thought I had a Blue Cross calculation like
3 that somewhere. It will take me a minute.

4 Q. Well, let me ask you this: In the public aid
5 analysis that you did using the core model, you used
6 the NMES public aid data, right?

7 A. Yes.

8 Q. Let me ask you this: What does the term
9 "endogenous" mean to you?

10 A. It's a term -- do you have a piece of paper?
11 It's a term describing a situation in a set of time
12 with equations in which the left-hand side
13 variables -- you have to have more than one equation
14 now to do this. Left-hand side variables of the
15 equations appear also on the right-hand side.

16 Q. Now, what problems do endogenous variables pose
17 in building models?

18 A. Sometimes it's called the issue of simultaneity.

19 Q. Can you be a little more specific about the
20 problems that the endogenous variables cause?

21 A. I don't think that they cause a problem which is
22 fundamentally unique to that word. The basic problem
23 is one of model specification.

24 And one way to have a model that is
25 incorrectly specified is to have the wrong variables

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1 in the wrong equations stated clumsily.

2 So the easier to understand the issue is
3 that if you have a model that does not comprehend the
4 right variables or the variables in the right form,
5 you have a problem with specification and it can lead
6 to a serious error. Really, no limit on the
7 magnitude of the error, so specification is an
8 important issue.

9 Q. In lay person's terms --

10 A. That was lay person.

11 Q. No. This is a different question. In lay
12 person's terms, does endogenous mean essentially that
13 the dependent variable affects the independent
14 variable, as opposed to vice versa?

15 A. No, no. It means that the correct specification
16 requires multiple equations, and that it isn't a
17 question of that versus a vice versa. It's that
18 multiple equations are necessary to comprehend the
19 relationships. And in the spirit of what your
20 question was saying, that in those multiple
21 equations, some variables appear on both sides.
22 Okay?

23 Q. Suppose you have a situation where what you're
24 attempting to do is determine the effect of an
25 independent variable on a dependent variable. So

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1 you've got that situation?
2 A. Go ahead.
3 Q. But then you learn that the deep-ended variable
4 may also have an effect on the independent variable.
5 Could that fall into the category of an endogenous
6 situation?
7 A. Yes.
8 Q. Now, you mentioned that you included the
9 exercise -- strike that -- an exercise variable in
10 one of your equations, right?
11 A. Yes.
12 Q. Did you get that exercise variable from NMES,
13 specifically the NMES questionnaire?
14 A. I think so.
15 Q. If you can recall, was the question something
16 along the lines of which comes closest to describing
17 your physical activity, either one, I often spend at
18 least a half an hour in moderate or strenuous
19 physical activity three or more times a week, or two,
20 I'm not very active when I'm at work or working
21 around the house, and except for ordinary activities
22 of daily living, I don't spend too much time in
23 physical activities?
24 A. Let me -- I can look it up and see if I have it
25 written down exactly.

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1 Q. Well, let me just ask you this: I mean, does
2 that sound generally like the NMES questionnaire?
3 I've got it in my hand and I would be happy to show
4 it to you.

5 A. I've seen the questionnaire and where it's
6 possible would not be too much time to nail down the
7 answer. I guess it would be better if we did that.
8 And when I was speaking, I see that in addition to
9 NMES data, I've also got an analysis here involving
10 exercise that comes from a different source as well,
11 so this --

12 Q. What source is that?

13 A. That's CPS II, Roman II.

14 Q. And did you use that information as well in this
15 exercise that is part of your expert report with
16 respect to putting in a variable on exercise?

17 A. No. I was just being complete, and because my
18 first look found it, I was -- rather than lose it
19 again, I thought I would show exactly where I got my
20 exercise variable for this particular analysis.

21 Anyway, I'll -- you -- the book has been
22 marked and I'll tell you for time purposes under tab
23 14 you'll find the questionnaire, and I believe I
24 have the exercise thing circled somewhere in here so
25 you can find it.

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- 1 Q. When you say "questionnaire", is that the NMES
2 questionnaire?
3 A. No. This is CPS II. So on the way to looking
4 for the NMES one, I came across another one and
5 thought I would mention it.
6 Q. This is not the questionnaire you used for
7 estimating this variable in your expert report, right?
8 A. Correct.
9 Q. That's all I want to know. Now, would you agree
10 that if a person is sick with bladder cancer he may
11 not exercise?
12 A. It's possible.
13 Q. Would you agree that being terminally ill may
14 cause a person not to exercise?
15 A. Possible.
16 Q. Does it matter to your calculation that some
17 people may not exercise because they are ill?
18 A. No, I don't think so.
19 Q. Are there any specific terms in your equations
20 where you included the exercise variable and got this
21 reduction that address lack of exercise stemming from
22 illness?
23 A. No.
24 Q. Why did you include the exercise variable in
25 this analysis that you make reference to in your

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- 1 expert report?
- 2 A. Because exercise is a very large factor in
3 health and mortality. And to fail to comprehend it
4 at all invites serious confounding.
- 5 Q. Do you know of any published studies of health
6 care costs that discuss the problem of disease
7 leading to a lack of exercise?
- 8 A. I can't think of one, but I imagine there would
9 be some.
- 10 Q. Let me ask you about the depression variable
11 that you use. Did you also get that from NMES?
- 12 A. Yes.
- 13 Q. Do you remember if the question that you used as
14 a basis for this variable asked whether a person in
15 the last thirty days had felt downhearted and blue?
- 16 A. That sounds familiar, but I was looking to see
17 if I could be more specific.
- 18 Q. Let me show you a copy of that NMES
19 questionnaire. Do you remember if that was the
20 question? I think there is another one on the next
21 page.
- 22 A. I remember down in the dumps.
- 23 Q. That's on the next page. Which one did you use?
- 24 A. I would have to check that.
- 25 Q. Okay.

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- 1 A. So far I haven't found a document that will
2 assure me of what that choice is. I may have it with
3 me. I just can't find it.
4 Q. Do you remember if --
5 A. Maybe -- let me mark that down, and if we have a
6 short break I might be able to find that.
7 Q. Do you recall if you used one or both of the
8 NMES questions regarding feeling downhearted and blue
9 and down in the dumps?
10 A. I'm not going to be able to tell you without
11 finding it. I haven't found it so far.
12 Q. But it's one or the other?
13 A. No, not necessarily. It could be a composite.
14 I'll have to let you know. Maybe it will happen
15 today. If not, maybe it will happen Monday morning.
16 Q. When you use the term "depression" to describe
17 your variable, are you claiming that this is a
18 medical definition of depression?
19 A. No. It's just whatever that variable is.
20 Q. Whatever that variable is from NMES, right?
21 A. I think that's right.
22 Q. Now, would you agree that if a person is sick
23 with bladder cancer he may feel depressed as a result?
24 A. It's possible.
25 Q. Would you agree that if a person has a terminal

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1 illness the person may feel downhearted and blue and
2 depressed most of the time?

3 A. Possible.

4 Q. Now, does it matter to your calculation
5 regarding depression that some cases of depression
6 may be caused by a smoking-related illness?

7 A. No, I don't think so.

8 Q. Do you have any specific terms in your equations
9 that address depression stemming from illness?

10 A. No.

11 Q. What's the biggest problem in including a factor
12 like depression in your equations?

13 A. I don't know what you mean.

14 Q. Well, why did you include depression in the
15 model or your equation I should say?

16 A. It seemed reasonable to do so, and as I recall,
17 plaintiffs had talked about doing it at some early
18 stage.

19 Q. Is it reasonable because smokers have more
20 depression than non-smokers; is that your
21 understanding?

22 A. No. That may be true, but the -- that's not the
23 point. The point is that in assessing attributable
24 risks or attributable costs, the effect is important
25 and other risk factors could show itself as a

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- 1 confounding factor, and that's one of the major ones.
2 Q. When you say "it's one of the major ones,"
3 what's the basis for your statement?
4 A. I've studied health risks for years.
5 Q. Do you know of any studies of smoking and health
6 that control for depression or mood?
7 A. I'm sure there are some. I can't name them. I
8 know there are studies that show the importance of
9 mood.
10 Q. Did you rely on any specific studies for your
11 inclusion of depression in this equation?
12 A. No, I didn't rely on a specific study.
13 Q. Can depression increase medical expenses for a
14 person who has a smoking-related disease?
15 A. Might or might not.
16 Q. Now, suppose NMES had the question -- just
17 assume this for a moment. Suppose they had a
18 question: Was your feeling downhearted and blue a
19 result of illness or poor health, would you have
20 controlled for this factor in your equation?
21 A. May I look at this?
22 Q. Certainly. You're looking at the NMES
23 questionnaire?
24 A. Well, I was kind of wondering about your
25 question when you say you want me to assume that.

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1 Are you meaning to suggest that it's a fact?

2 Q. No, no, no. I'm just asking you to assume for
3 the purposes of a hypothetical that NMES asked the
4 following question: Was your feeling downhearted and
5 blue a result of illness or poor health, and my
6 question is: Would you have controlled for this
7 factor in your equation on depression?

8 A. It might have or it might not have.

9 Q. Can you explain to me that answer?

10 A. Well, it's hard to talk about an analysis
11 involving a variable when you haven't confronted the
12 analysis or you haven't studied the variable.

13 Q. So it's possible that you could -- that you
14 would control for a variable like that, right?

15 A. It's possible that I might have used such a
16 variable in some demonstration, but you seem to have
17 slipped me into a role that I never took on. I was
18 just creating some illustrations of some problems
19 with plaintiffs' models by including some variables
20 that they hadn't shown that it makes large
21 differences. I wasn't trying to trade jobs with them.

22 Q. But in your equation, which I take it was a test
23 or a check of the plaintiffs model, if you had
24 available to you the answer to this hypothetical
25 question in NMES would you make use of it?

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1 A. Might or might not. Same answer.
2 Q. So you don't think that that would be an
3 important variable to control for?
4 A. Definitely getting into fine tuning seems -- and
5 I can't answer it without looking into an analysis of
6 whether that would be important fine tuning or not.
7 Q. Well, would it be important to know whether or
8 not someone was depressed because they were sick?
9 A. Might not be important.
10 Q. Would it be important to know those who were
11 depressed because they were sick and those who were
12 depressed and then smoked as a result?
13 MR. BIERSTEKER: Object to the form.
14 THE WITNESS: You lost me. Maybe it's
15 getting late. I just didn't follow you.
16 BY MR. HAMLIN:
17 Q. Would it be important to you to identify cases
18 where smoking was caused by depression and then the
19 smoking led to illness?
20 A. Sounds hard to do, I can tell you that much. I
21 doubt that it would be important to me. It certainly
22 sounds like a challenge.
23 Q. So that would not matter to your calculation
24 that someone was depressed and then smoked and then
25 got sick?

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1 A. It wouldn't matter to the calculation I was
2 doing for the purpose that I did it, no.

3 Q. And it wouldn't matter to your calculation if
4 someone was sick with a smoking-related disease and
5 then became depressed, correct?

6 A. No, I don't think it would. Can we take five
7 minutes?

8 (Recess taken.)

9 BY MR. HAMLIN:

10 Q. Let me show you what's been marked as Trial
11 Exhibit 26046. That's just a portion of this book
12 which is entitled the Evolving Role of Statistical
13 Assessments as Evidence in the Courts. Have you seen
14 this book before today?

15 A. Yes.

16 Q. Are you familiar with Stephen Fienberg?

17 A. I know him.

18 Q. Is he a well-regarded statistician?

19 A. Yeah.

20 Q. Have you worked with him?

21 A. I haven't taught or anything. I've sat across
22 the table and talked to him.

23 Q. Let me direct your attention to a portion of the
24 exhibit that lists the members of the panel on
25 Statistical Assessments as Evidence in the Courts.

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1 Now, you were at the University of Chicago, right?
2 A. Yes.
3 Q. Do you know James J. Heckman?
4 A. Yes.
5 Q. He is or at least was at the time of publication
6 of this book at the University of Chicago in the
7 Department of Economics?
8 A. Right.
9 Q. Is he also well-regarded in his field?
10 A. Yes.
11 Q. Are you familiar with this panel?
12 A. You mean with the people?
13 Q. Yes.
14 A. Some of them.
15 Q. Who are you familiar with?
16 A. Well, I either know or know the work of Fienman,
17 Heckman, Hunter.
18 Q. Fienberg or Fienman?
19 A. Fienberg. Heckman, Hunter, Meier, Segwell.
20 Q. Now, are all these people eminent and
21 well-regarded in their field?
22 A. Yes.
23 Q. Was Paul Meier a colleague of yours at the
24 Department of -- strike that -- at the University of
25 Chicago?

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1 A. Yes.
2 Q. And do you know Thomas J. Campbell from the law
3 school at Stanford?
4 A. No, I don't know him.
5 Q. You were at the law school there for awhile,
6 right?
7 A. I just finished teaching a course there. I'm
8 not teaching one right now.
9 Q. Let me direct your attention to the page that's
10 titled Committee on National Statistics, 1996, 1987.
11 Do you know any of the individuals on the committee?
12 A. Yes.
13 Q. Can you tell me who you know?
14 A. I've either met personally or in some cases am
15 familiar with their work, Fienberg, Berger, Seymour
16 Geiser, Hasman, Juster, John Pratt. I haven't met
17 Judith Tanner, but I've read stuff by her.
18 Q. Do you know Kenneth Wachter?
19 A. No, I don't know him.
20 Q. Are the people that you've just identified as
21 people you know or are familiar -- or the fact that
22 you are familiar with their work, are these people
23 eminent and well-regarded in their respective fields?
24 A. Yes.
25 Q. Now, are you familiar with the Committee on
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1 National Statistics?
2 A. I'm familiar with certain individuals.
3 Q. Are you familiar with the work of the Committee
4 on National Statistics?
5 A. No.
6 Q. Have you read any other books or reports by the
7 Committee on National Statistics?
8 A. Are you identifying this book as a book by that
9 committee?
10 Q. Well, have you read any publications by the
11 Committee on National Statistics?
12 A. No. I can't think -- I may have, but I can't
13 think of any book or report by that group. Oh, I
14 forgot to mention Press, Jim Press is on here.
15 Q. You're talking about J. James Press, the
16 Department of Statistics, University of California
17 Riverside?
18 A. Yes.
19 Q. And you know him?
20 A. Yes.
21 Q. And he's well-regarded and eminent in his field?
22 A. Yes.
23 Q. I want to turn your attention to the page which
24 I call the notice page. It's this page that begins
25 with "Notice". It says that, "The probability that

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1 is the subject of this report was approved by the
2 governing board of the National Research Council
3 whose members are drawn from the Council of the
4 National Academy of Sciences, National Academy of
5 Engineering and the Institute of Medicine. The
6 members of the committee responsible for the report
7 were chosen for their special competencies and with
8 regard for appropriate balance."

9 Now, are you familiar with the National
10 Research Council?

11 A. Well, I certainly know the name. I'm trying to
12 think of their connection to NSF.

13 Q. What is NSF?

14 A. National Science Foundation. Whether they're
15 part of that or not, I'm sure.

16 Q. Do you know if the National Research Council is
17 a governmental body?

18 A. It sure sounds like one, but I don't know that
19 as a fact.

20 Q. Do you know whether the National Academy of
21 Sciences is a governmental body?

22 A. I know they get their money from the government
23 and they're located in Washington, but exactly their
24 legal status, I don't know. They've been around for
25 a very long time so they're certainly a well-known

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1 outfit.

2 Q. Have you ever received grants from the National
3 Research Council or the National Academy of Sciences
4 while you were an academic --

5 A. I may have. Grants I received came from -- can
6 we go off the record?

7 (Discussion held off the record.)

8 BY MR. HAMLIN:

9 Q. Now, I think the question was have you ever
10 received grants from the National Research Council or
11 the National Academy of Sciences while you were an
12 academic, and your --

13 A. I wasn't sure because I'm not clear on the
14 relationship with the National Science Foundation. I
15 can tell you I've received grants from the National
16 Science Foundation. As to exactly where or if the
17 National Research Council is connected, I don't know.

18 Q. Do you regard this book as a reliable authority
19 in the area of statistics as evidence in courts?

20 A. Depends on what they would say.

21 Q. I'm not asking you whether you agree with every
22 statement, but I'm asking whether or not you agree
23 that -- well, first of all, you agree that these
24 people are speaking as a group when it comes to this
25 book, right?

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1 A. Let me look at the book. I don't know quite
2 what the structure is. It's apparently very
3 complicated. It appears that your characterization
4 is accurate. It looks like we don't have chapters
5 with separate author titles. Without looking more
6 closely, it appears that this collection of people
7 have somehow coordinated on producing this book.
8 Fienberg appears to have a senior role. He's the one
9 person on the cover.

10 Q. And you agree that these people who are eminent
11 and well-regarded in their field are speaking about
12 their respective fields, right?

13 A. I hope so, but I can't agree. I would have to
14 read more closely, but you would hope that would be
15 true.

16 Q. Without agreeing with every word in the book, do
17 you agree that this Committee on National Statistics
18 and the committee that authored this book is a
19 reliable authority in presenting a book on the role
20 of statistical assessments as evidence in the courts?

21 A. I'm not sure what that would mean, but this is a
22 group of people that don't even agree among
23 themselves so I'm not sure how to think of them
24 collectively as a reliable authority.

25 They are very highly-regarded senior

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1 thoughtful people in the area of statistics. I
2 wouldn't diminish that by my comment; but exactly
3 what that means in terms of their collective results
4 here in this book, I guess you could only know by
5 reading the book and deciding what you think.

6 Q. Have you read the book?

7 A. I've read portions of it sometime ago. I don't
8 think I've read the whole thing. I take that back.
9 I think I have read the whole thing.

10 Q. Was that in connection with your work in this
11 case?

12 A. No. I got it when it came out and read it.

13 Q. And did you find it to be authoritative?

14 A. I guess I don't think the way you think. I know
15 these people and I read their book. That's -- I
16 don't know how to stamp things authoritative.

17 Q. Well, let me ask you this: These people are, as
18 you said, well-regarded in the field of statistics.
19 Did you find their work to be somehow flawed when it
20 came to discussions of statistics?

21 A. I haven't read it for awhile. There may be
22 elements here that I would disagree with, and if I
23 disagreed, I would hope I would have some good
24 reasons.

25 Or I can think of another aspect; I may

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1 disagree without you interpreting what you read. So
2 sort of a Biblical thing; one could read the same
3 sentence and come up with different understandings as
4 to what you think you were reading and what I think I
5 was reading. Why don't we turn to something and talk
6 about it. It could be the most interesting part of
7 the deposition.

8 Q. Let me direct your attention to page 114. Do
9 you have that?

10 A. Yes.

11 Q. I want to direct your attention to the paragraph
12 marked "Damages". Do you see that?

13 A. Yes.

14 Q. About three quarters of the way down there is a
15 sentence that begins "Experts"?

16 A. Yes.

17 Q. That sentence -- actually there is more than a
18 sentence. There is a couple of sentences and they
19 read as follows: "Experts typically provide
20 confidence intervals to go along with point estimates
21 that they obtained." Do you agree with that
22 statement?

23 A. Yes, that's common.

24 Q. And the book goes on to say, "Such confidence
25 intervals may be large, but since the issue of

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1 violation has been settled, it seems reasonable to
2 allow the courts with the experts' help to obtain the
3 best point estimate possible, even if the zero
4 damages estimate is within a reasonable confidence
5 interval." Do you have any reason to disagree with
6 that statement?

7 A. Basically I would -- I basically would agree
8 with that, although there would be extreme -- I would
9 have a couple things to add to it to make sure I was
10 not misunderstood. First, even if you agree with
11 that, it doesn't mean that you can now ignore or
12 forget about the meaning of the confidence interval.
13 It's still there. It's still large. It still
14 embraces zero by this hypothetical, and that may be a
15 matter of consequence for the Court.

16 The second thought is that there -- there
17 almost certainly has to be a limit on this point;
18 that once the uncertainty in the estimate becomes
19 overwhelmingly large, potentially picking a vague
20 term here, the Court, even under the circumstance
21 that as it says the issue of violation has been
22 settled, might rule out through some legal ruling. I
23 forgot what you call it, not admit I think is your
24 word -- or a jury might choose to disregard it just
25 on the basis of the huge uncertainty.

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1 Q. So with those two thoughts you would agree with
2 this statement?

3 A. Yeah, basically I agree with that statement.

4 Q. Now, let me direct your attention to your
5 affidavit which has been marked as Exhibit 4879.
6 Now, your comment on confidence intervals -- strike
7 that. In your expert report you make a comment about
8 confidence intervals, and you refer to your
9 affidavit. Let me show you Deposition Exhibit 4878.
10 Specifically you have a reference in there about
11 statistical significance, and you make reference to
12 your affidavit, right?

13 A. Yes.

14 Q. Now, in your affidavit the paragraphs that refer
15 to statistical significance are 6, 7, 8, 9, 10 and
16 11, correct?

17 A. Yes.

18 Q. As I understand it, in your affidavit the only
19 model that you refer to is DHS or diminished health
20 status model mixed, right?

21 A. Yes. That's all the affidavit discusses.

22 Q. Now, you yourself didn't run any confidence
23 intervals on the diminished health status model mix,
24 right?

25 A. I think I did. I've used your experts'

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1 programs.

2 Q. Well, your comments in the affidavit refer
3 specifically to the plaintiffs' experts calculations
4 of confidence intervals, correct?

5 A. Yes, but I've done that too.

6 Q. Well, did you calculate new confidence intervals
7 for the diminished health status mixed model?

8 A. What do you mean when you add mixed?

9 Q. Well, I'm only referring to the diminished
10 health model mix that you refer to in your affidavit.

11 A. That's -- I think it's referring to part of the
12 DHS model. The -- well, I have -- using the
13 plaintiffs' programs, sometimes using them on
14 calculations that -- where they did not report
15 confidence intervals I have calculated confidence
16 intervals many, many times.

17 Q. With respect to your comments in your affidavit
18 about the diminished health status mixed model, you
19 say that the model lacks statistical significance,
20 right?

21 A. Yes.

22 Q. Is that because the confidence interval goes
23 below zero?

24 A. Yes.

25 Q. Let me ask you this: With respect to your

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1 supplemental expert report, you mention, "The nursing
2 home model and you state that it does not possess
3 statistic" --

4 MR. BIERSTEKER: We're not quite with
5 you yet.

6 THE WITNESS: Okay.

7 BY MR. HAMLIN:

8 Q. Do you see on page 6?

9 A. Okay.

10 Q. You state that, "The nursing home model does not
11 possess statistical significance," right?

12 A. Yes.

13 Q. Now, is that because the confidence interval
14 goes below zero?

15 A. Yes.

16 Q. You also state that the -- it looks like,
17 "Zeger's smoking attributable claim for medical
18 expense for age 35 and older does not possess
19 statistical significance." Do you see that?

20 A. Yes.

21 Q. Does that refer to the refined model?

22 A. It includes that.

23 Q. Or is this a separate calculation that you made?

24 A. It's a calculation I made.

25 Q. This is not a calculation the plaintiffs made?

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1 A. It's not one they reported. I don't know what
2 they made. I would point to my computer programs for
3 the source of this number.

4 Q. Now, you say that this claim for medical expense
5 for age 35 and older does not possess statistical
6 significance. Does this refer to both the State of
7 Minnesota estimate and Blue Cross?

8 A. If you want, we can turn to the details; but
9 just judging from the language, it would because I'm
10 not apparently differentiating in the paragraph.

11 Q. So it would between the state and Blue Cross?

12 A. Yes. If we wanted to know that for sure, we
13 could turn to the backup which would be in tab 18 of
14 book 2.

15 Q. Again, the reason that you find that this
16 particular claim does not possess statistical
17 significance is because the confidence interval goes
18 below zero?

19 A. Yes.

20 Q. Let me show you what's been marked as
21 Demonstrative Exhibit 2077A. As I understand it, you
22 provided the basis for this demonstrative exhibit; is
23 that right?

24 A. Yes.

25 Q. Under the circumstances titled "Public Aid and
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- 1 Non-Public Aid Populations," correct?
2 A. Yes.
3 Q. Now, is this exhibit based on NMES?
4 A. Yes.
5 Q. Let me direct your attention to the first line
6 which is, "Greater average overall medical expenses."
7 Do you see that?
8 A. Yes.
9 Q. And you've got the block under public aid
10 marked?
11 A. Yes.
12 Q. I take it that means that in your estimation the
13 public aid population has a greater average overall
14 medical expense; is that right?
15 A. Yes.
16 Q. And -- well, why don't you tell me this: How
17 did you arrive at that conclusion? Did you just
18 gather up all the dollars for public aid and compare
19 them to all the dollars for non-public aid?
20 A. I think so. If you'll give me a moment, I'll
21 look it up. Yes. I can see that I have the
22 calculation does exactly that in tab 2, book 2.
23 Q. Now, did you make any adjustment for age or sex
24 in coming up with that number?
25 A. Well, I have it by age and by gender, yes.

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1 Q. What was the adjustment that you made by age?

2 A. Well, I have it by age group 35 plus. I have it
3 by the now familiar age groups, 19 to 34 and so on.
4 I have it by male, female and male, female. A lot of
5 those age groups. I've got pages of it.

6 Q. How many age groups did you use in calculating
7 this greater average overall medical expenses? Is it
8 just one or more?

9 A. All I did was fill in a square here on Exhibit
10 2778, so I suppose you could fill in the square based
11 on one or you could fill it on more. The filled in
12 square doesn't really require that it be one or the
13 other because there is no actual number printed here.

14 Q. Well, what was the basis for filling in the
15 square?

16 A. The many materials in this tab 2. So if you
17 want to press me on it, we can do it, but I'd say
18 taken as a whole, tab 2 listing pages of those
19 expenses suggest a higher average expense for public
20 aid. And you can do it in a variety of ways.

21 Q. I know you can do it in a variety of ways, but
22 did you adjust by the age group of 35 plus? That was
23 one adjustment, right?

24 A. Right. If you do it that way, you get the same
25 result.

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- 1 Q. In -- well let's see. You also did an age
2 adjustment by using the groups 19 to 34 and 35 to 64
3 and 65 plus; is that right?
4 A. Yes.
5 Q. Did you age stratify in order to get that
6 result?
7 A. You could call this age stratify if you would
8 like.
9 Q. But you didn't compare, for example, 35 year --
10 strike that. You didn't compare 35-year-old public
11 aid recipients to 35-year-old non-public aid
12 recipients?
13 A. Yes, I did.
14 Q. You compared them in groups, right?
15 A. Yes, in groups.
16 Q. You didn't compare just the 35-year-old public
17 aid recipients to just the 35-year-old non-public aid
18 recipients, right?
19 A. No, I did not.
20 Q. Or non-public aid people, right?
21 A. You're correct, I did not.
22 Q. And that would also be true of greater average
23 of all medical expenses?
24 A. Yes. I'm sure that's just a subset; that page
25 you showed me is a subset of 2777.

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- 1 Q. I show you what's been marked as Trial Exhibit
2 2080(a). You've also got an entry here titled,
3 "Greater Average Overall Medical Expenses." Do you
4 see that?
- 5 A. Yes.
- 6 Q. Did you age adjust to get that result?
- 7 A. I have it -- I have it by age adjusted
8 categories, yes.
- 9 Q. What were those age adjustment categories?
- 10 A. Same ones we have been talking about; either as
11 a whole or 35 plus, or in the much used categories
12 that you're familiar with.
- 13 Q. Let me show you a demonstrative exhibit which we
14 just received, "Relative cost of smokers is lower in
15 populations with more health risks." Do you see
16 that?
- 17 A. Yes.
- 18 Q. Is that a demonstrative that you have helped
19 prepare?
- 20 A. Yes.
- 21 Q. Now, you've got a number of entries here.
22 General population, what does that refer to?
- 23 A. That's NMES.
- 24 Q. The next, two or more risk factors, and the next
25 entry is six or more risk factors, and the next one

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- 1 is public aid population. What are the risk factors
2 that you're referring to?
3 A. There is -- they're listed in the program
4 CODERISKFACTORS2.SAS.
5 Q. Now, is it your testimony that the public aid
6 population has or consists of a population with all
7 six or more risk factors which you identify in this
8 exhibit?
9 A. No, that's not my testimony.
10 Q. Well, when you say that the public aid
11 population has most risk factors, what are you
12 referring to?
13 A. I see what you mean. The horizontal access,
14 those little placards there are guidance for the
15 reader that as you go to the left you're getting
16 fewer risk factors, and as you go to the right you're
17 getting more risk factors; whereas there will be some
18 people in public aid who have fewer than risk factors
19 I assume. On the average they would have more than
20 six risk factors.
21 Q. When did you do this calculation?
22 A. I can't tell you a date.
23 Q. Was it after you prepared the supplemental
24 expert report?
25 A. Yes.

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- 1 Q. So your supplemental expert report does not
2 reference this calculation?
- 3 A. Correct.
- 4 Q. And if we look in this program, are you saying
5 that we will find all of the risk factors for the
6 public aid population that support this last block in
7 this demonstrative exhibit?
- 8 A. I don't know what you mean by the last block.
- 9 Q. The one that says public aid population and the
10 block or the graph goes below zero.
- 11 A. No. That's a misunderstanding. The last bar
12 labeled public aid population is simply the public
13 aid population.
- 14 Q. Well, does the bar represent or tell us anything
15 about the relative costs of smokers?
- 16 A. In the public aid population, yes.
- 17 Q. And how is it that you -- strike that. What
18 does it tell us?
- 19 A. As a whole or you're talking just about the last
20 bar?
- 21 Q. The last bar.
- 22 A. It tells us that the relative cost of smokers is
23 less than one, and in the public aid population.
- 24 Q. What does relative costs mean?
- 25 A. It's like a relative risk, ratio of cost. If

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1 two groups had the same average cost, it would have a
2 result of one because the numerator and denominator
3 would be equal.
4 Q. What groups are you comparing here?
5 A. In the public aid bar?
6 Q. Yes. In order to come up with this Public aid
7 bar.
8 A. Smoke -- average smokers and never smokers.
9 Q. In the public aid population?
10 A. On the right-hand side bar, yes.
11 Q. Now, can you identify any literature on health
12 care costs that computes a relative cost of smokers
13 in a Public aid population?
14 A. You mean leave aside your experts in this case
15 you mean? Talk about some published literature?
16 Q. I'm talking about published literature.
17 A. There may be. I can't think of one. Far more
18 common is relative risks, but I don't have one in
19 mind. There may be some.
20 Q. You didn't go to a specific piece of scientific
21 literature to come up with this concept of relative
22 costs of smokers is lower in populations with more
23 health risks, right?
24 A. I'm not sure which concept it is that you're
25 inquiring about.

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1 Q. The one that you're illustrating in this
2 exhibit.

3 A. Well, the exhibit as a whole is one thing, and
4 the particular division of the single bar on the
5 right-hand side seems to me to be quite a bit
6 distinct from that, and I'm not sure which one you're
7 talking about.

8 Q. Did you rely on any published literature for
9 this demonstrative exhibit?

10 A. Yes.

11 Q. Which did you rely on?

12 A. Published literature which indicates that in
13 special high risk populations that relative risks for
14 risk factors including the risk factor in smoking as
15 an example tend to be smaller than in, say, the
16 general population.

17 Q. Can you cite an article as you sit here today?

18 A. You can see it in your -- what I call the
19 Control Data study which is Voight and somebody.

20 Q. Now, is the conclusion that you draw from
21 this --

22 A. I'm sorry. Earlier you asked about literature
23 that did a relative cost. I think it's done in that
24 article.

25 Q. Did you say the Voight study?

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- 1 A. V-o-i-g-h-t and the co-author.
2 Q. And this is Milliman & Robertson did you say?
3 A. Maybe we're mixing up two things. If we got the
4 thing out, maybe I could be sure. Maybe I could
5 refer to it as the Control Data study, because in the
6 lower right-hand corner it says Control Data, and if
7 I'm thinking about the right article, within that
8 article that present data illustrating the point
9 about diminishing relative risks in high risk
10 population.
11 Q. What is it you're asking the reader to draw from
12 this demonstrative exhibit?
13 A. That the relative risks of smoking are different
14 and less in high risk populations like public aid
15 population than they are in say the general
16 population.
17 Q. So this is a calculation of relative risk?
18 A. No. I'm tired. If I said relative risk -- it's
19 true for relative risk, but it's also true for
20 relative cost.
21 Q. Well, what does that mean in layman's terms?
22 A. I thought it was easy to understand so I'm not
23 sure how to phrase it differently. I'll try if you
24 want to probe a little bit, but I thought I had used
25 layman terms.

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1 Q. Well, in essence you're saying that the public
2 aid population is high risk, right?

3 A. Yes, that's -- I would say that.

4 Q. And that using that high risk population as a
5 base, the smokers don't increase the relative risks
6 by much in that population?

7 A. That's true also. The more general point is
8 high risk populations, whether they be public aid or
9 not, show in continuation of the relative risks of
10 individual risk factors. I think that's fairly wide
11 appreciated.

12 Q. As you sit here today, you can't identify --
13 well, can you identify any of the risk factors that
14 you're referencing in this exhibit?

15 A. Yes.

16 Q. What are you referencing as risk factors?

17 A. Well, I gave you a place where you can read
18 them, but I can read them to you if you would like.

19 Q. Sure.

20 A. Not physically active, poor income, less than
21 7.5 hours of sleep, not seat belt user, not
22 breakfast, not high school grad., not married,
23 overweight, Medicaid, risk-taker, what I call not
24 social support but I think it's infrequent social
25 contact is the variable, depression, SSI disability

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1 recipient, doesn't feel they can share feelings with
2 someone.

3 Q. Let me ask you this: Do any of those factors
4 have any effect on how much a smoker spends to treat
5 a smoking-related disease?

6 A. It might. It wasn't the point of the
7 demonstration, but that's the answer.

8 Q. Now, would you agree that smokers in high risk
9 populations have lungs similar to smokers in lower
10 risk populations?

11 A. I'm sure there are similarities and differences.

12 Q. But just from a purely physical standpoint, do
13 you know of any difference between the lungs of
14 smokers in high risk population versus those in lower
15 risk populations?

16 A. As a statistician, I would expect differences.

17 Q. Do you know of any medical differences?

18 A. I would expect systematic medical differences.

19 Q. Do you have any basis for that statement?

20 A. Statistical, one they're not -- they're a
21 special population, rather extreme special
22 population. Unless you're doing random sampling,
23 it's almost a certainty that you will see systematic
24 differences between the special population and the
25 general population on essentially any dimension you

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1 like.

2 Q. Including lungs?

3 A. Yes, I would expect that.

4 Q. Let me ask you about Trial Exhibit 3074. Now,
5 when you compared the costs in that exhibit, did you
6 adjust by age?

7 A. Yes.

8 Q. What was that age adjustment?

9 A. I think it's the standard categories, 35, 64 and
10 65 plus. Let me look it up.

11 MR. BIERSTEKER: As I recall, there
12 was a subsequent in relation of this 3074, but I may
13 be mistaken.

14 MR. HAMLIN: I think that's it.

15 MR. BIERSTEKER: I said I may be
16 mistaken, but something in the back of my head --

17 MR. HAMLIN: That's the most recent
18 one we have. I mean, we did get a new one and I
19 think that's it, unless you have a different memory.

20 MR. BIERSTEKER: Never mind. My
21 memory is cluttered.

22 THE WITNESS: Is there a question?

23 BY MR. HAMLIN:

24 Q. The question I believe was what age adjustments
25 did you make in that particular exhibit.

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- 1 A. 35, 64 and 65 plus.
2 Q. So you compared those groups, right?
3 A. No, that's not correct.
4 Q. I'm sorry. 35 plus, that includes everybody
5 over 35?
6 A. It does. But to keep this on track here, it
7 includes in separate strat. 35 to 64, 65 plus.
8 Q. And did you compare those specific groups; that
9 is 35- to 64-year-olds to 35- to 64-year-olds and 65
10 plus to 65 plus?
11 A. I think the comparison is available on my
12 spreadsheets, but I don't recall what it is.
13 Q. I'm not asking the specifics of the comparison;
14 I'm asking whether you did that comparison.
15 A. It's unclear how to answer. If I did it, it's
16 sitting right here in a page in front of me; so I
17 guess I did do the --
18 Q. But you did compare age groups, right?
19 A. What I did was to make a bar chart that is 3074
20 which is a stratified calculation taking into account
21 both age and gender, and then behind that I have a
22 spreadsheet that gives fine detail for males and
23 females of various age groups.
24 Q. How did you stratify by age?
25 A. For the purposes of this chart, 3074?

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1 Q. Yes.

2 A. 35 to 64, and 65 plus.

3 Q. You didn't compare when you sampled 35-year-olds
4 to 35-year-olds just in that one strata, right?

5 A. I calculated the values and displayed them so
6 they're there for viewing. I don't mean viewing on
7 Exhibit 3474 where you're looking now; I mean
8 information behind that which is book tab 3511.

9 Q. But you did not compare the specific group of,
10 say, 35-year-olds to another specific group of
11 35-year-olds; you compared by age groups, right?

12 A. Now I'm with you. I did not do the specific age
13 group of 35 and not 36, for example. It was a group,
14 35 to 64.

15 Q. So you took that group and compared it to
16 another group of 35 to 64, right?

17 A. That's where I'm falling off. I didn't
18 explicitly make those comparisons, but they're
19 sitting here on the page available for anyone who
20 wants to look at them to make the comparison. There
21 are so many comparisons here.

22 Q. What book are you referring to; what's the depo
23 exhibit number?

24 A. It's in tab 11.

25 MR. HAMLIN: Off the record.

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1 (Discussion held off the record.)

2 BY MR. HAMLIN:

3 Q. In your supplemental expert report, you state
4 that, "Zeger's diminished health, public aid,
5 hospital expense model to calculate attributable
6 expense due to each of six factors; insurance status,
7 weight" --

8 A. What page please?

9 Q. -- "Gender, income, marital status and seat belt
10 use." I'm referring to page 6 of your supplemental
11 report.

12 A. Okay. You didn't read it accurately, but I know
13 what you're talking about.

14 Q. What didn't I read accurately?

15 A. I thought you were saying Zeger's model
16 calculates, and I read I used Zeger's, et cetera, to
17 calculate.

18 Q. What you did was you took Zeger's model and you
19 calculated attributable expense due to each of six
20 factors which you list in the report, right?

21 A. Yes, that's correct.

22 Q. Now, when you made this calculation did you set
23 the smoking coefficients to one?

24 A. I don't think so.

25 Q. Let's talk about the first factor for which you

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- 1 develop a SAF. I think you call it insurance status,
2 right?
3 A. Yes.
4 Q. And what you do then is attempt to calculate a
5 smoking attributable fraction due to insurance
6 status; is that right?
7 A. I wouldn't call it "smoking attributable". I
8 call it attributable fraction.
9 Q. Well, can you point to any scientific literature
10 which finds that insurance status is a risk for
11 increased medical costs for smoking-related diseases?
12 A. I don't have anything in mind, but that doesn't
13 mean it isn't fact.
14 Q. Is there -- well, once you develop this risk
15 fraction, I guess, or attributable risk or
16 attributable expense fraction, you then -- well, do
17 you apply it to any dollars?
18 A. Yes.
19 Q. And you also developed a separate attributable
20 expense fraction due to weight, right?
21 A. Yes.
22 Q. And can you identify any scientific literature
23 which finds that weight is a risk factor for
24 increased medical costs for smoking-related diseases?
25 A. Yes. I'm sure that wouldn't be hard at all. I

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1 don't have an article. Probably the Surgeon
2 General's report would say that.
3 Q. So it's your statement that the Surgeon
4 General's report would say that weight is a risk
5 factor for increased medical costs for
6 smoking-related diseases?
7 A. I'm sure I could find that.
8 Q. And then the next factor that you talk about is
9 gender, right?
10 A. Yes.
11 Q. And again, you develop an attributable expense
12 fraction for gender; is that right?
13 A. Yes.
14 Q. Can you identify any scientific literature which
15 finds that gender is a risk factor for increased
16 medical costs due to smoking-related diseases?
17 A. I may not have been listening close enough to
18 these questions. Have you been saying cost
19 throughout?
20 Q. I've been saying costs.
21 A. I didn't pick up on that. When I was pointing
22 to the Surgeon General, I was thinking of health and
23 mortality. For costs, I wouldn't look there. I
24 would look to -- I think that Control Data study may
25 have it; the one we talked about earlier.

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1 Q. Would have what?

2 A. Results supporting the view that, for example,
3 weight is a -- we'll call it a cost factor; it
4 doesn't have a gender. It may or may not have
5 gender, but it's still going to be a cost factor.
6 Seat belt use, all the things that are on my list.
7 I've forgotten the exact items that are in that
8 Control Data article. There are several.

9 Q. And you're saying that gender then is a risk
10 factor for increased medical costs for
11 smoking-related diseases?

12 A. I'm sure it is.

13 Q. And you're citing this Control Data study for
14 that proposition?

15 A. I'm speculating that that may be in there. I
16 know there are various factors in there.

17 Q. Do you know of any other study?

18 A. Of risk factors for increased costs?

19 Q. For smoking-related diseases.

20 A. Not off the top of my head, no.

21 Q. Now, are you saying that the Control Data study
22 calculated the increased risk -- strike that -- the
23 increased medical care costs due to gender?

24 A. I don't remember which, but what I remember is
25 there were several risk factors. I'm not going to

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1 use your "due to" word because as a statistician it
2 doesn't have that orientation. But what we would
3 call risk factors or systematic differences in
4 groups, it has several in there. Whether it has
5 males and females separately, I don't know, but I
6 have no doubt myself that it would be correct.

7 Q. I'm not asking you whether or not the risk
8 factor was in the study. I'm asking you whether or
9 not the study actually calculated the amount of
10 additional expense for smoking-related diseases due
11 to gender.

12 A. It calculated differences -- then you are asking
13 me; it has -- I would have to get the article. I
14 haven't memorized the article. If you wanted to get
15 it in front of us, I can be more specific.

16 What I can tell you from memory is it looks
17 at differential costs, but for a variety of risk
18 factors. Whether it has gender, I don't recall. It
19 has several other things.

20 Q. When you say "differential costs", are you
21 saying that the costs were actually broken out for
22 each specific risk factor such as weight, gender and
23 other risk factors?

24 A. I recall some charts with some different costs
25 in them. I don't remember how many charts for how

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1 many factors. But I'm not able to give answers at
2 that level of detail about that article unless we can
3 get it in front of, us and I didn't bring it so I
4 can't pull it out of the box here.

5 Q. Now, was this the Chrysler article or Control
6 Data?

7 A. I'm going by memory. I thought it was the
8 Control Data. In the lower right-hand side corner it
9 said Control Data to my recollection.

10 Q. Where did you see it?

11 A. I've had it in my office.

12 Q. Where did you -- how is it that you saw this
13 report? Was this a report that plaintiffs provided
14 in this case?

15 A. I don't recall how we came by it. I've seen it.

16 Q. Can you give me a definition of what you mean by
17 "attributable risk"?

18 A. Yes. There is actually several variations on
19 the concept and -- but basically it is a measure of a
20 difference in risk in two populations. That's
21 probably the simplest way. I think Mr. Samet defined
22 it that way, and that's probably the simplest way.

23 Q. So you don't have any problems with the way Dr.
24 Samet defined it?

25 A. No. I don't have any problem with his

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1 definition, but there is not just one definition of
2 that. It's like -- I think it's like many things in
3 life. There is several different versions of that
4 concept.

5 Q. Would you agree that in merely all attributable
6 risk calculations where you've got multiple factors
7 you can always pick out certain positives which will
8 add up to more than 100 percent?

9 A. No. I don't know that you could always do that.

10 Q. But you can do that in many cases, right?

11 A. I haven't done it in many cases. You can do
12 that in those instances where there are several
13 important risk factors and where they are correlated.

14 Q. That doesn't undermine the validity of the
15 study, right?

16 A. What study?

17 Q. If you have a study where there are multiple
18 risk factors, and you add up the attributable risk
19 percentage, and they equal more than 100 percent,
20 are you saying that that makes the study invalid?

21 A. What I'm saying is that that could make the
22 interpretation of -- of the size of any one risk
23 factor suspect because it would be evident that there
24 is a mixing together of risk factors that are being
25 encompassed under one name.

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1 Q. Well, my question is, if you have multiple risk
2 factors, and you add them up to more than 100
3 percent, are you saying then that the study is
4 invalid?

5 MR. BIERSTEKER: Objection. Asked and
6 answered.

7 THE WITNESS: What study?

8 BY MR. HAMLIN:

9 Q. Any study.

10 A. You would have to be more specific.

11 Q. So you wouldn't say that if that happens, the
12 study is always invalid?

13 A. What study? You could be talking about a study
14 that has nothing to do with risk factors. You would
15 have to tell me what study and what aspect of the
16 study you're talking about. I think I've already
17 given quite a fulsome answer a couple of answers ago.
18 So I think we're okay with my answers so far.

19 But as to the answer to the current
20 question, you're just not being specific enough about
21 what study you're talking about; even hypothetically
22 you're not being specific enough.

23 Q. Have you seen a study where the attributable
24 risk percentage added up to more than 100 percent,
25 apart from anything in this case that the plaintiffs'

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1 experts have done?

2 A. Yes.

3 Q. Can you identify one?

4 A. Yes. Surgeon General reports have that
5 characteristic. I should say the characteristic is
6 one of human health, but you can see that phenomenon
7 reported in the Surgeon General report.

8 Q. What phenomenon is that?

9 A. The phenomenon arising from the fact that when
10 it comes to human health, there are several factors
11 that have large impact on health and they tend to be
12 correlated, and the result of that more or less
13 mechanically is that they will be -- that each of
14 those risk factors, when calculated separately in the
15 usual way, will really be a composite of that risk
16 factor and some portions of the other, some
17 contributions from the other, so that when you total
18 them, you're going to get more than 100 percent, at
19 least what is often more than 100 percent.

20 Q. Now, talking specifically about those Surgeon
21 General's reports where that happens, is it your
22 testimony that those Surgeon General's reports are
23 invalid because of that fact?

24 MR. BIERSTEKER: Asked and answered.

25 THE WITNESS: No. My testimony is

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1 that the individual relative risks or attributable
2 risks would be exaggerated in those instances.

3 BY MR. HAMLIN:

4 Q. And they would be exaggerated because of this
5 phenomenon of correlation that you referred to?

6 A. Yes.

7 Q. Last question. Just give me a brief definition
8 of what you mean by correlation in the context which
9 we have just been discussing.

10 A. Well, I mean the standard name and Pierson
11 definition. I mean a measure of para-wise linear
12 association.

13 Q. How about a lay person's definition?

14 A. Well, it's a formula. Correlation qualitatively
15 means that if in a population you see examples of a
16 variable that are unusually large in that particular
17 instance by that person, it's a better than even bet
18 that some other variable is also large. And when
19 that phenomenon is, in fact, operating, you say those
20 two things are correlating.

21 MR. HAMLIN: Thank you.

22 (Time: 4:30 p.m.)

23 * * *

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C O N F I D E N T I A L
C E R T I F I C A T E

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I, NANCY K. JOHNS, RPR, hereby certify that
I am qualified as a verbatim shorthand reporter; that
I took in stenographic shorthand the testimony of
WILLIAM E. WECKER, Ph.D. at the time and place
aforesaid; and that the foregoing transcript
consisting of pages 409 through 571 is a true and
correct, full and complete transcription of said
shorthand notes, to the best of my ability.

Dated at Minneapolis, Minnesota, this 20th
day of April, 1998.

Nancy K. Johns, RPR, Notary Public
Hennepin County, Minnesota
My commission expires January 31, 2000.

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C O N F I D E N T I A L

C E R T I F I C A T I O N

I, WILLIAM E. WECKER, Ph.D, the deponent,
hereby certify that I have read the foregoing
transcript consisting of pages 409 through 571, and
that said transcript is a true and correct, full and
complete transcription of my deposition except:

WILLIAM E. WECKER, Ph.D.
Deponent

Sworn and subscribed to before me this
day of , 1998.

Notary Public

My commission expires

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